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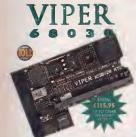
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CU AMIGA MAGAZINE . MAY 1995

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Printer showdown 27

Which is the bost printer for you? Whether you need a printer for DTP, graphics, professional documents or rough program fistings, there's something on offer matrix, and laser printers. But it's more than just a buyers guide. It's got detailed graphic descriptions of the technology behind the type of printer is best suited to your needs.



Fitting Hard Drives 34

Hard drives have never been cheaper and there's never been a better time to fit one to your A600 or A1200. Let's face it, very few Amigas have been sold in the last year, so invalidating the warranty is no longer an issue! We show you how it's done on page 34. It's a lot easier than you might think.

Get Serious

Micro Studio 2000
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The Amiga is dead long live the Amiga By April 20th



the Amega's new master should be announced. Will it be PC manufacturer and retailer or some other outsider? The Commodore UK bid They have the expenence and commitment and they know the market. But no one really

knows what will happen if it goes to another party Escom both here in the UK, on continental Europe and in the USA to put the but will a do so? And will it support the existing user base? With the Amiga out of production for over a year now it is going to take time have to act quickly and decisively, for all our sakes

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One of Europe's leading PC manufecturers has been report-

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For general, non-technical, a synthese Wold year letters in Bankinst, for technical problems and them to GMA. Both are of CU AMIGA, Priory Court, 30-23 Fards given Larse, Lundon SC 19 JAU.

NO BUBBLISHOUND.
We get havefreds of new PD programs a very week, but we're still husgry for mech. If yes ve written a PD program that yes're proud at seed it to the PD 20MS, CU AMIOA, Pleary Court, 20-22 Farringdon Less, Lumfer 8C19 3AM.

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Backchat

der e opinions in arint.

Points of View

Player Manager 2 is a football management simulation with ONE BIG DIFFERENCE - you can actually test your managerial decisions where it counts - on the pitch.



Anco Times

Match Report









Manager Ratings



Features that add superb arcade action to playable management.















This month we've got something a little special for you. Not only the stonking ProDraw program (worth £200) but also a bladder-busting demo of OctaMED 6.

ProDraw 3

drawing package, allowing you to create stunningly datailed pictures. Illustrations, logos and ertwork You can load these pictures into a DTP program for printing or convert tham to IFF format for usa m any normal graphics program Even better, grams, when you resize thesa images they will remain just as good as the original and won't go all blocky or jaggy. If you print for instance) they will take advantage of the print resolution, getting better and sharper as your printer resolution increases

Structured drawings work on a different principal to bitmap drawings OPaint Bollance and other brtmap based programs work by having a screen full of different coloured pixels. Pictures era drawn by changing the colours of

the pixals. When the pixels ere small, you can't see the coins, but if they're blown up, the stapped edges become apparent When you save the picture, every pixel and its colour value is saved

called vector graphics) programs

ProDraw 3 and works on all bugs in the program. beyond our control ProDraw does not work on Workbench 3 Amigas - the A1200 and A4000. DotaMED 8, the exclusive deme, (foued on this month's game disk 107) have fun.



Feature Overload

ProDraw is just overflowing with professional features and capabilities. In fact it's overloaded with features that both new users and professional graphic artists will find useful. Amongst the more interesting ones are:

- Text distortion tools
 Wrep text eround curve
 Gradient colour fills radiol and linear
 Import Encapsulated Postseript and bitmap graphics. Seve es Encapsulated Postscript for use with almost
- Pastoss coloum for professional colour work
 Utility to convert bitmap pictures to structured
- drawings and vice-versa

These are all possible with our cover diek. You'll also find a range of utilities end simple clip ert to help you get start all courteey of your friends at CU Amiga Magazina

the other hand store only the data for the shapes that make up the picture, describing them as mathematical formulas. When you Amega looks at the shapes and redraws them at the new resolution Taking advantage of the increased number of pixels. In a bitmap program the pixels are stretched so pictures that looked good suddenly become blocky ture hundreds of times it won't lose any quality - try doing this in Deanti Creating pictures in ProDraw will mean that they always look good, and get better

when you show or display them on a high resolution monitor or printer Easily adapted

is also easile to chenge a structured diswing in OPAer when you care a scrule is becomes part of order to be a scrule in the structure of the colors of the puests in the order of the circle. To change the circle solv youll need to change the circle solv you care to change the circle solv you can be compared to the circle and the properties of the circle and the circle and first of the circle and

well By only saving the mathematical shape date, structured diswing files are much smaller than bitmap IFF files. A black page with a red circle in would be saved as draw a page, perint it black. Draw a red circle, 10mm in diameter, in the middle of the diameter, in the middle of the diameter, and in the page, repartless of the fact that only a small area in the middle was being used. Over the next few pages you'll.

find comprehensive details on how to decompress and use this powerful progrem, and on page 12 you can find out about all the excitain gave features in OctaMED 6. Over the coming months we'll also be running a series of tutonals showing you how to get the most out of ProDraw.

Manic menus Take a look at the panel on the

nghi and try out the vanous tools. After experimenting them with for a while you should be families with the basic tools of ProDraw and will be well on your way to being able to create detailed illustrations and logos. And ProDraw can be even more

ProDraw Explained

This is the drawing area. Objects (lines, circles, sequeres and text) are drawn here. To draw an object use the tools on the right hend side. Objects are selected by clothing on the Null Pointer tool and then cliching on the visible sidges of objects. To select more then one object hold the Shift hey down whilst selecting them or use the Marques tool and drag e box around the objects.

To delete en object select it end press the Shift and Delete heye et once. You can ebort most drawing operations by pressing Ecope. You can elso force the program to redrew the display at any point by pressing the spece ber.



BULL PRINTED TOOL. Click born to ware on infreed in a charteng object. Chief him this odgs of an object. A ant of control points well was appear farm place because of the change the independ on which click Americanishing lock of the ending of an induced and draw of on waves this matrix change. You can shall click the one belonger and these industry locks are shall click the one beginning the armount of the hild Pearson tast belonging up a required as allowing man terms in delicity operations.

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CUPTING TOIL. Care Rever thirt is not motifier objoint.
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object. Since before referring the yourse? better first before
carried poet of "a worn increase Helding Source the
day and the sense where define others the
day as a sense is mer version as extrained the curve.

Speeding things up Structured drawings are meda up of mathematically defined shepas. To display these shepas it can often taka s faw minutes to work out the complex calculations raquired end as a result you will often find yourself welting for the program. This is the case with all structured drawing programs, on Macs, PCs and Amiges. But ProDraw has the enswer. You can turn off the full detail coloured display and work with just object outlines, using the full colour mode just to preview and chech your work - making parformance much faster. This is how most users work in ProDraw and other drawing packages. In fact the leading drawing program on the Mac (Hiustrator) has only recently allowed you to adit pictures in full colour mode, previously forcing you to work in its 'Artwork' mode

ProDraw loads with its outline mode 'Wireframe' salacted as standard. To viaw a picture in full detail click on the Wireframe option under the Preferences menu - so there's no tick next to it. To see it in colour click on the Black & White line under the same manu. By turning these modes on, with a tick, you can make the display update quicker and faster. Working in Wireframs mode has no effect on the picture content, it marely hides the timeconsuming detail from viaw.

Read on to find out more. Here's ProDraw's other features

it's a wrap! Under the Special menu you'll find

an option called Align Text With text to be wrapped around curves - perfect for creating loggs and typographical effects. Create

some text using the Text tool and then create a curve. Select both objects (using the Null Pointer and Shift key) Now click on the Align Text to Curve meny and click on DK You'll now see the text flow

Fill it

If you ve created an object you'll undoubtedly want to fill it with

tzier curves allow you to draw curves at any angle. Moving the control points will change the shape of the fina. Clicking on a con trol point and than dree ing the tengent line ontrol points allows the le of the curve to be changed, Understanding ocess is vital to king with ProDraw.



Communicating with the world

No, ProDraw doasn't have built-in modem, although if you've got a modem there is a lot of structured clip ert you could get hold of from the Internet. If you've created some ertwork you'll probably went to use it in a DTP program or enother application. Thara ore savarel weys to do this. Firstly you can save it as a ProDraw Clin



A Web ClipVay o'su un the coverage vert your Frakraw proturns into III file file - this will load into GoldDish's Professional Page

Alternatively you can save the drawing as an Encapsulated Postscript File (EPS) which you'll be able to load into any other good DTP program. To save a drawing as a Clip use the Sava option under the Clips manu. For EPS files select Output/Postscript under the Project menu.

If you want load your pictures into something like DPoint you'll need to use enother program. ClipMap, for example, which can be found on the second ProDrew disk. To convert your pictures using ClipMap you'll need to save your ProDraw illustrations as clips.

colour or make the border thicker This is done from the Attribute menu. Try this out by drawing a circle. Now select the circle and click on the Gradient/Fill under the Attributes menu. You'll now see a requester allowing you to define a graduated fill (either radial or linearl, and alter the colours used and other options Click on OK and then turn off the Wireframe and under the Preferences menu You'll now see your circle filled with a graduated tint! Try out the other options under the Attributes manuthis is fundamental for creating professional artwork



A Wisk the program's powerful Class function it's proudile its means impressive effects very moti-

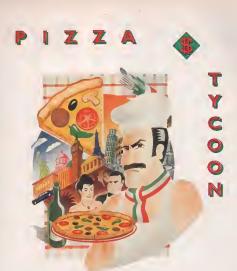
and enter vanous parameters. You can duplicate the clons operation by pressing the Shift and Tab keys at the same time

Object Under the Object menu you'll find a number of very useful editing functions. The first of these are tions. These allow you to take two or more separate objects and Group' them together so they become one, living in mained bless for ever more or something. To reverse the action use UnGroup The Align feature allows you to shan several objects so their top, bottom, left or right edges all line up

Cloned

The Clone facility is one of the ProDraw With it you can not only copy existing objects, but change the way they ere placed on the page. As it copies an object you scale it, changing size as it goes and finally rotate it. To try it out highlight an object, select Clone

Coming Soon! That's it for ProDrew this could do a lot worse than just pleying around with the various tools and options. Learn how to manipulate Bezlar curves, and object manipulation in particular. Over the part few months we'll lie no ning in-depth tutorials wing how other parts tricks and hints to get more out of this amuzing created with ProDes Leaning, ProDraw Corner CU Amiga Magazine, Priory Court, 30–32 Fartingdon Lane, Leades



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· 16-bit sample handling

Improved sample editor

(saving disabled)

Londs end saves MIDI files

Save as executable (disabled)

New features

Here's a selection of the new features and improvements of OctaMED 6.

- Multiple commands on each line
 - Custom screan modes
- Custom font selection
- · ARexx port
- Aura and Toccata sampler support
 Enable/disable audio channels

Instrument types

| Byhrid | ExtSample | Synthetic | f6-bit Exit

OctoMED 6 allows you to use a number of different instrument types Amiga samples synthesisad Amiga sounds, hybrid Amiga samples and synth sounds MIDI instruments. Aura 12-bit semples and Toccata 16-bit samples

Obviously you'll need the Aura or Toccata sampler herdware to use those last two options. Any combination of these types can be used in the same song. Select that type by clicking on the Type button from the Main Control penel

MIDI loading and saving Standard MIDI filas can be loaded, upon which they are



automatically transferred into OctaMED's tracker format. The conversion from MIDI to tracker format can be controlled from the SMF Load Options window from the MIDI menu You can ession a command page to each of the MIDI controllers isee Commend pages panel for more info). The commercial release version of OctaMED 6 will also allow seving of songs in MIDI file format. You cen't use it here however, as all of the save functions are disabled

etting started. Load the derno module from the disk by selacting Open from the Project manu, then double clicking tha PianoNotes|Theme! file which can be found in the MOD drawar Alternatively, try out the MIDI piece. You will need a MIDI instrument connected in pidar to hear this one

We don't have room for full instructions here, but assuming you have some basic knowledge of previous versions of OctaMED (we geve away a complete varsion of OctaMED 4 with the July 1994 issue), there should be no trouble getting into the progrem. For leading instructions, see page 18. What follows is a guide to some of the most prominent new features

Sample editor

The sample editor can now hendle 16 bit samples, and has extre editing features, such as adjust Y offset, add workspace, overwrite paste, better chord creation, lots of loop controls a experiment. It can also load MAUD, AIFF, WAV IFF and RAW samples

The full varsion will be able to save these too

Command pages You can now use more than one command on each line of a track to deline how each sample is played This is a powerful naw feature. For instance, you could play a sample and strobe it on and off with the volume command, whilst ortch bending it to a fower note, and altering the sample offset value simultaneously! No other softwere

gives you this kind of control over your samples and MIDI instruments There's no room between the tracks to include more than one command, so each block can be made up of a number of 'command pages Selact Block Properties from the Block menu, and you'll see this window. Click in the box labelled Cmd Pages, and enter a number, depending on how many simultaneous commands you want to use. This makes a number of copies of the current block. These copies (command pegas) ere in fact sub-divisions of the onginel block. You can cycle through the commend pages using the Shift and Tab keys insarting additional commends on subsequent pages. You'll notice the note data is carried across from the original, but the commands are not. All command pages are played whanever you play the onginal block

Font selection

the various displays. Three different fonts can be assigned to the general screen, the windows and the tracker editor This is very handy, as it frees you from the eye-strain of reading tiny letters and numbers, particularly in the tracker editor There are no extrafonts on this disk, but you can use eny you mey have on your hard drive or other disks. Select Font from the Settings menu to access this featura



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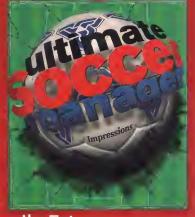


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all Amigas. Twist's range of power features such on its integrated forms deelgner its visited & coupled with its un-cluttered, well-designed uses interface make a ideal for both the first-time and

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not take a look at the Twist demo disk?

create the measurpless of your dreams in a single easy-to-use, comornherseve environment using C G and Daypec 3 90% AUI 92% CU Amiga

Information Super Highway? Don't worry Termite is so many to use that even a first time user will lest at home. Yet if her all the power and flexibility to saissly the most exasoned modum wit

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SYSTEM

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Can you make the world a better

place for a crowd of tiny slapheads? Test your theories in this exclusive demo from Gametek.

irategy game where you must populate the land, opestruct build-and invent may technologies

of

the

ga

th its



chip RAM. your Beldies as builders. Building a house gives you vital civilisationbuilding options

Demo for Kickstart 2.0 and

Housey, housey Clicking on one of your houses beings up the house panel. The house panel allows inventions to he creeted and other houses to be built. The house panel is also where more baldies are reproduced. If the house gets full the

baldies will all troop out. So try to keep a good balance of Baldies. All four types ere vital to success. but you'll need some more then others in certain situations Baldy menegement is tha key

Invention

Once you have a scientist in the house end et least one wendering pround outside it's time to start inventing! Open a house panel and dick on the vellow question mark above the scientist (this icon shows that no inventions are culrently being worked upon). A list of possible inventions appears Chapter on invention by clicking on it Click on the main door to exit the house. The invention that was selected will appear on the lefthend side of the invention panel When the invention is being worked on, the ber to the right of it will fill up with red, turning green when It's finished You can then concentrate on another weapon

Once you have enough weapons you can scroll down to hairy territory and test them out The skunk bomb is e good one to send haines flying out of their house and if you've set a trap outside the front door they will all run straight into it. There are numerous other ways to dispose of Haines For exemple, try using the map editioon to get nd of any land that they may be standing on This sends them to a watery grave Alternetively, soldier baldies can be placed in trees to ley in wait and then embush any hairies wandering about

There is so much to this demo it s impossible to cram it all in here it's best to explore all the possibilities yourself - have fun

The baldies explained

Workers (red) are the standard Baldles. Workers are the only Baldles that can procreate and initially make up the mein body of your force.

Buildiers (blue) will wender around the landscape and the force of the processing the baldle between them.

- until they find somewhers to build a house. Then they get to work (providing you have enough powr Soldiers (grsen) will defend your houses (from inside) and wander the land looking for enemies to
- iminate. Soldiers residing inside houses elso make bullets for use in battle
- Scientists (white) are the brains of a baldies colony. They
 wonder around relaing the overall science level of your team Scientists inside e house ers create weepons



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Final Copy IITM is ideal for that merck lesser but also beauts features which are powerful ecough to help you produce end results normally neocuted with expensive





Print of (an advanced proof the stage Postscript^{rid} surface funds to any printer at both is the families of the portrait modes) ensure that Famil Capp $H^{(n)}$ is the tender in its class. You can easily generate multiple newspaper Water weaking columns, amperi may graphic objects or pictures and place them anywhere on your page), scele or crup those



print text over graphics and the respec as abways of the highest pushty Final Copy IF's offers the perfect balance between word processing and some advanced nere larged creation in one great program.

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Hard draw compulsory, this new program is fac power users wasting the siturate performance. As with Final Cary Hyu, excellent output is guaranteed uninung PerfectPrint To and you'll also benefit from a host of other advanced features including



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your working session. Your new database well present as a table with rows and columns allowing you to view whole casees of data at the same tene. Column wadths can



stweys he adjusted, to sub-your requirements, by simply dizerous their borders with the mouse. Data is then emend 1910 "cells" and Flood Data 1th even detects entries of smalled dates etc. and displeys an alert message for your attention Screen totals are available as options on all amounts and calculations (murebers can also be formatical with marriary signs and commus again you can decide).

Final Date by us ideal for label pointing and even has built as routnes that remove all the complexities from this often involved task. You can always utilise the "Prost Merge" leasure found in Final Copy IITM and Final Wester'D - samply select the program you are using and Final Balante does the rest autorogocally for you. The program is also equable of reading nay database created in Pra Pal^{Co.}, McAmura File and File. Harrin as well as standard ASCII files found to many other common programs. Above all you'll be eble to start using First Date¹³⁴ immobilely

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Follow the instructions on this and previous pages exectly tyou still expanence problems loading the disk cell the Dist/Spress helpine on 0451

TYPE OF AMIGA DWNED

DISK NUMBER

AMIGA

DESCRIBE EXACTLY WHAT HAPPENS WHEN YOU TRY TO LOAD THE DISK

ProDraw

p'll need two spare disks to hand, onto which the ProDraw program and date files will be expanded. Follow these steps to make up your working *ProDr*nw dlake. 1, Insert coverdisk t06 into the internal floppy drive and reset

- yeur Amiga. 2. Double click on the CU Amiga disk icon veur Ami
- Double click on the icon marked ProDraw1.
 Insert the first blank disk and press Return when requested.
 Swop the first blank disk for cover disk 106 when asked to
- 6. Swop the cover disk for the first blank disk once more and
- press Return whee prompted.

 7. Insert the coverdisk osco egain when asked to do so.

 8. Mark your first blank disk *ProDraw Program disk*.

 9. Double filek the icon marked *ProDraw 2.

 10. Insert your second blank disk and press Return
- when requested.
- 11. Replace the cover tisk one last time when asked to do de.

 12. Label your second blank disk 'ProDraw Clip Art'.

 13. Insert the disk marked 'ProDraw Program disk' and reset
- your Amiga. 14. Double click on the Icon marked 'PDraw 3.0 Disk 1', and

then on the icon marked 'PDraw'. 15. ProDraw will load. Now refer to the instructions on page 8. OctaMED 6

OctsMED 6 is on coverdisk t07 in compressed form. Before you can use it, you need to decompress it onto a blank disk. Follow these steps to make up your OctsMED di 1. Insert cover disk 107 into the internal floppy drive and reset

- the Amiga.

 2. Double click the icon marked 'CU'.

 3. Double click the icon marked OctaMED 6.

- A Double-click the loop medical CetalRED 8 (a learn to bear did, and prome Return white saled to do so. 8. Replace the blank did with the convertile, when asked to do so. 8. Replace the blank did to with the convertile, when asked to do so. 8. Lobel your blank did to CetalRED 6. Tetract the CetalRED 6 dids, and none your Analysis Double-click the icon marked of the did to Double click the icon marked of CetalRED 8° (Click on Cancel when asked to Insent volume Fonts', Now refer to the
- instructions on page 12 Note: We've squeezed a few bonus samples and instrument sounds onto cover dais 107 in uncompressed form. These can be loaded into OctaMED 6 for use in your own compositions.

Baldies

Before you can play Baldies, you need to decompress it onto a blank disk. Follow those steps. 1. Insert souerdisk 107 into the internal floppy drive and reset

- the Amiga.

 2. Double click the icon marked 'CU'
- 3. Double click the icon marked 8
- Double click the loon marked Baltiles.
 Insert a blank disk and press Return when eaked to do so.
 Replace the blank disk with the coverdisk when saled to do so.
 Swap the disks back and press Return at the prompt.
- 9- Swep ms donk back and press Return at the prompt.
 7- Replace the cover disk when asked.
 8- Label your blenk disk "Salids".
 9- Insurt the Baldies disk into the interest drive, and case the Angles. Baldies will now lead. Refer to page 15 for playing instructions.

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nearly all European countries and many
of the old Soviet Block countries

Escom has major plans for computer retailing in the UK high street market. It already has a chain of 24 shops in the UK as well as a presence in 35 Office World out-of-town stores It has also just purchased Rumbelows, the UK based chain which was recently closed down after significant trading losses it now intends to re-open all of the stores whilst expanding its Office World presence too In total it will have over 300 Escom outlets in primary high street locations, or major out-of-town sites by the end of the year To run these it plans to increase its UK staffing levels by 1,500 people.

Bemard Van Tlaram - Managing Director of Escom Hollend - to lid CU Amiga Magazine that the UK stores will primarly sell Escom branded Pcs. including multimedia systems. Escom du0,000 units (PCs) from their German manufacturing plants in an exiduative interview Mr Van Tianam went on to say that Escom are also considering.

A Cost die barber spiese en Adapt vir der bereit.

A best die barber spiese en Adapt vir der bereit.

A die besie diespesel 4° Stansel Mah?

moving into telecommunications, and set-topbox technology

CLI Arriga Meacane first heard news of the bad in mid March and it was then reported in the ECTS issue of the garnest trade megazine CTW However, when saked to comment on their reported and Mr Van Tienem would neither confirm nor denyt he presence of mency on the table and was also covelling to comment on their table and was also covelling to comment on the tables and was also covered to the comment on the tables and was also covered to the status of the Arriga's they won to did for it. However, the Arriga's potential as a set top definent/box would of browusly fit in really with

Escom's future plans
The Amiga would also
provide Escom with a low cost home computer
to complement the higher priced PC systems

currently sold through its shops
David Pleasance who is jointly heading up a

prospective rival management buyout of Commodure a world wide rights, wasn't womed by the move though, cleaning that their bed was still the most likely to succeed. Either way it is obvious that the Armya is still in demand not just by users and dealers, but also by prospective menufacturers.

Mac-beating graphics

ne of the best structured drawing programs for the Armyae is to be upgreeded ProVector Version 3 from Stylus from Wile Professor 2 of the program 4.48es from several important limitations that have pievented it from oversleing its rivol ProClava as the best structured delowing program. The new version will give Armigu users sower prevously only seen on Made drawing sower prevously only seen on Made drawing some program.

programs such as Adoba Misstator Version 3 looks like becoming the champion of Armap vector graphics. Amongst the many of Armap vector graphics. Amongst the many own features are powerful clipping paths allowing objects to be masked out, gredent fast, the support that datable Misstator, and insurance and appears tools such as braidly and insurance and appears of the programs of t

Jeff Blume. Vice President of Stylus, said of the new release, "We are committed to providing Amga users with a superior drawing program and we will continue to improve the Provector family of products".

The Stylus Pro-Pack has a suggested price

of \$299.95 but for a limited period Stylus will selling it at an intenductory pice of \$198.95. Stylus are also offering an upgade fer users of earlier versions of ProVector, Art Expressions, Professional Daw, Design Works to Aegis Daw, although exact upgaded pricing was still being fifialled at press time.

CU Amiga Magazine is currently faising with several UK distributors to agrange UK availability and will bring you till details of UK support, pricing and shipping dates shortly in the mean time Stylus are on 0101 303 484 7321



Ocean teams up

Tom 17 have apped a deal with Clean Softwee to exclusively distribute their garness on all formats. The deal in which beth Clean and Ties mill 17 letter their own appealate identities, will not sage the current 18 countries to 64 Countries and will previous the nocessary cest and basis into tallow their soft soft and their properties. At the moment Team produced their soft countries and the countries of the countries and the countries of the countries the countries of the countries of

in the tyture games which tall under the deal will be branded with both the Ocean and Team 17 logos Will Team 17 be swallowed up though? Alan Bankei, their PH manager was keen to stress that "Team 17 s branding will be maintained and we are still 100% independent."

Evasive Action

Mindscape have been very evasive about their latest slice of serial action. We should have had a preview of this 'dogfight simulation in the games section this month but due to mystenoue circumstances (probably something to do with the ECTS) we never got hold of it it sounds good though, with four different fight scenerios promised: World War 1, World Wer 2, modern jet combat and futuristic space combat. Mindscape's PR department has gone to great pains to point out that Evasive Action is not a flight sim in the conventional sense of the term. It is an air combat simulator designed to emulate one on one air com bat, using 3D grephics and arcade style gamaplay Hopefully we'll have that full preview next month.

ComicSetter success

CU Amga Magazine's Jahruny 1995 issue ConneSpers overdask is being used to illustrate MicroMenness, a car magazine for Microdar enthusests Although not quite up to Judge Dradd stenderds, MicroManiacs is now using the progrem to produce on-page carteors For more information on the magazzine, contact Steve Peoper, 2 C Chnies Avenue, Harrogate, North Yotiss, HG1 4PE.

Raging on



15

arm up extravaganza is now well under

has is being handled by Morate Kombar! I a Valesian Phobe Entertainment and is secreted to be finished by the end of the momen! The corn-op has e multitude of difsact moves for you to moster, but Probeects to be able to morapore is all of being events for the secret of the control of the owing to play using either one or two long to play using either one or two long to play using either one or two long to play using either and two long to play the play the whole a Work in Progress on Primal next month.



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Book 'em!

eteran Arniga book publisher Bruce Smith Books has released a now ArnigeDOS programming guide "Mastering ArnigeDOS Scripts" of written by Mark Smiddy, it covers all espects of writing ArnigaDOS scripts covering small utilities and brigger progrems too.

utilities and bigger programs too.
There are over 100 ready-to-run scopt programs listed in the book suitable for AmigaDos 1 x.2 x end 3 x systems. Each scopt is explained on e line by line basis to aid the learning process.

To complement Mastering AmrigaDOS Scripts Bruce Smith Books are producing a disk that contains many of the scripts listed in the book; it also has several PC/Shreovers unitries on it to help your programming. This is available for £2.00, via a coupon in the back cover.

This book costs £19.95 and is available from major book stores or via the Computer Bookshop on 0121 706 1250. We should have a review of it next month.



Write to your CD!

A German software developer claims to have created o program that allows normal Arrigas and CD drives to write to compact discs? Previously CDs have been reed only, which means that while they can store vast amounts of deta you couldn't write your own information to them.

Now Relph Babel and Stefan Ossowski (the creators of the Aminet, Imagine Enhancer and other CDs) claim to have have developed a software application thet, enables your Amiga to write to CDs using normal CD drives.

According to details from their German besed company — Schetztruhe — the CD Write software will ellow you to store programs and configuration data on CDs, rearrange date, remove obsolate or undesired data and change look.

conerge toxis.

Too good to be true? Well it is, as we descovered, in reality all the program does is trensperently redirect instructions for the CD drive to either a floppy disk or hard drive, giving the impression of hering a wintebla CD. Quite why you'd want this program is anyone is guess, but if you're interested howe!

Computing are Schistzmus's UK agents. Call them on 0.724 A 273000.

Invisible ink

Hewlett Packard have just announced a , what's this er we cen't reed it. The sems to be lading it snyone at Hewlett Packard is reading this could they please the press release dated 1 April egain.

CD32 drops in price

Since are now selling than CD32 Critical games console pack for F199 £40 off vious price Siticals pack includes the Console and seven game titles — Canon Fodder, Diggers, Liberation, Microcosm, Oscar, Project X, and Ultimate Body Blow Silica et a 0.0181-309 1111

ICPUG discounts

Twist correction

way mistakes bein the April 95 issue actually published in the April 95 issue actually published in the UK by thiso end has a price of E99 95. This does affect our rating of this program, whome of the most powerful databases on the Amige.

HiSoft heve also announced that a version of the program will shortly buable. Contact HiSolt for full details: 01525-718191

Animation CD

Waird Science here released a new Packed with animations the twen C conteins work from asimators eroworld Aveilebla now, Animations -£19 95 and you can contact World 0116 234 0652

Buy your RAM boards now!

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Printer Showdown

Everyone who has an Amiga should have a printer ... and most people who have e printer would like a better one! We round up ten of the most populer to help you out.







fter upgrading the internal hardware of your Amiga, one of the most useful expansions money can buy is a printer And there's contam-

"inst block though the pages of any computer makingle in the pages of any computer magazine and you'll see all sorts of models but which is also far be pages of any computer magazine and you'll see all sorts of models all but which is also far you the most few pages you. If lind everything you need to know about you. If lind everything you need to know about the pages of the pages and page and the pages a

General use

But first, there are several important considerations to be made better choosing which printed to buy. The first of these is what kind of document you intend to print. With the obvious exception of price, this is the most important thing to bear in mind, as certain printars are better suited to outputting text, colour graphics of DTP pages then others.

From our most recent reader survey we found that most of you will use a printer for one of lour main reasons, general use word processing, producing prints of your graphics and DTP

If you went a good all-rounder that can handle the odd letter, maybe some program listings and ReadNe files, with the ability to print graphies too, then a dot matrix printer is often

the best option Dot matrix printers are the oldest of the



printer technologies seen in this feature. They consist of three main parts, is print head, a motor and is paper feed mechanism. The print head consists of a square of tiny pins.

head consists of a square of time prisindividual prise are moved forward creating the shape of such distriction or poel in the case of agents an inklad hibbon which in time pressed agents an inklad hibbon which in time pressed agents an inklad hibbon which in time pressed prise and the present and the present and the prise and the present and the present and the character. When it suches the far night adje of the page, the print head is moved back to the sant of the lime and the paper fixed menta-

Finer detail and higher quality results are achieved by increasing the number of pins in the pint head. The chaepest dot matrix printers have nine pins, although the much higher quality 24-pin models now cost as little as the nine pin models.

Colour dot matra ponters work by having a hibbin composed of four binds of colour (typically red, blus, yellow and black). The pinter can nove the ribbin up and down so the punthead presses against the different colours. By pinting over the same character with the diferent colour bands, a wide range of colours can be undued.

In recurst months the prices of dot matrix models, particularly 24-pins have fallend dramatically. By princedes can be bought for around £100 although the quality is only really suited for pinsonal use. Higher quality 24-pins can now bought for as cheep as £150, which is a dramatic decrease as only a short time ago they cost a tound £300-£400.

Word processing

Good text penting is obvecisely a primary feature if your registry use a word processor but with the increasing slant towards DTP that is creeping with onest Amige word processors, it's also likely you'll want to print the odd proture or graphic, maybe with a splash of colour along with your text. So what is the best method of getting a good quality printout of your text which will also de justice to any orables or colour?

Ink jet technology is the solution. Ink jet pinters produce neer leaer-quality results yet cost only slightly more than dot matrix equivalents. But they also have the capability to print in colour when needed.

in about within fielded.

In a simple snoopal, which is simple snoopal, which is a digital softer the bubble spands and firely located on the said great softer the bubble spands and firely bubbles, sending a spaying of the through a tube and finishy onto the paper which forms a dot more simple spands of the s

So far it sounds simple enough. However there are several problems that manufacturers

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You can save yourself money by refilling your old inh sertidiges instead of buying new oses. Atthough most mesufacturers don't recommend it, several companies claim to offer refills that comply with mesufacturer specifications. Refilling inhight certridges con cut your costs considerably. A new inh

Refilling inhist certridges con cut your costs considerably. A new inhist certridge costs eround £20, depending upon the model. Refills on the other hend are available for under £10! Try Grey-Tronics os 0500 737 800 or Care Electronics on 01923 894 004.

process raquires specific mk fluidity. If it's use that it doesn't spurt properly, too thin and it runs as it has the paper. The link container must be free of bubbles as this would wreak the link flow However, manufacturars have overcome these problems and inkbubble jet technology is now very affordstall.

Prices start from £200 for monochiome versions and £250 for colour models

Graphics

The Amiga's capabilities for producing colour pictures are second to none so it's not surprising that demand for good colour pinters



so high in the Amga market
You have two choices for printing your
colour images, and if pince is your primary
cem you're actually in luck. There are loads
low cost colour printers available. starting



How printers work

Laser printers

ŧ ŧ

· A locar beam londs the protes diams the funge to he printed onto the malacus of a column of two from these bern method of any simply sharped puriples. Phases the later held it do puriod to up the positive charge. The toper only sticks in the positivel and areas. Pepo is present by the dree and exam densities to poper, this greating the compe on the page. The paper is Stally men through a hunt page to which drive the rate, A next those rpes fin dina nurluse with a negative charge. around PIDD. At the hottom and of the scale

there are dot matrix models, at the other and (with prices of £250 and above) are ink Dot matrix technology will produce colour

mages but it tends to suffer badly from bandog - having lines running either vertically or honzontally through the picture. This occurs where the print head moves from one character to the next and there's an overlap or gap between the characters. You'll also find that dot matrix technologies often produce prints that are too dark or too faint - although you can compensate for this by altering the original picture and increasing the brightness.

Desktop publishing

2 has elways been one of the more popular applications for the Amiga, coming in just behind word processing and graphics in our survey, yet the needs of DTP printer users differ

Dot matrix printers



A: Death, Chath, Chath, Christe, Batt markle provincing in the oblinat head makes up their persons relieful to region and makes up to they were survey bely to right moreous the paper and at this need at lack line flower of the mark. To provi explorability and persons the paper and at this need at lack line flower of the forecast, the provincial place characters of the part arm probled against a last of shiften, which is not now probled against the part and part of the paper and persons the compression. But destroy provinces are the only type all powers that case parts on mail-persons destroyed paper forecomes of the parts. from these two previous types. For DTP work it's quality above all else and there's only one

& Clerk, clark, clotter, elatter But matric proving in the oldest and

type of printer that delivers the best quality: a laser printer With average resolutions of 300dp, which can be improved upon with enhancement technology, and print speeds of at least four pages per minute laser printers have become the favourite printer for professional DTP users. Falling costs also ensure that they are growing in popularity amongst users

on a traft budget Lasars printers work in a similar fashion to photocopiars. A laser beam is fired at a mirror This mirror rellection targets the beam onto a drum, and by rotating the mirror the beam can be moved honzontally ecross the drum surface. The drum in turn rotates allowing the beam to traverse its entire surface, creating the image of the page on the drum surface The drum unit itself is coated with a metenel, onto which the image is scored by the laser

Bubble iet printers



A Fubble as inkjet printers week soing a comerkably alongs present. A tay drop of this to placed even us allowed and doubted to arrend 400 dayress. As the ish gets better habbles from aventual-by creating non-large leabile which finally explodes fall of their hopgann in a frontens of a nanual). As 15 explodes the rab abouts up through a tube or much and un in the paper. He astropara in hubble arrests a vocasus which socks book ask a se income rance voir and start the process off all over again. As the drum rotates it elso goes past a trough

of powdered ink, which sticks to the area marked out by the laser. The rotating drum unit then passes over the paper, transferring the ink to it as it goes. As a final step the paper sheet is then heated to fix the ink

Laser printers with resolutions above the stenderd 300dpi are starting to become commanalace in 1993 Ricoh introduced the LP1200 leser printer providing 400dpl, and other manufacturers (Lexmerk, Hewlett-Packerd etc) produce 600dpi models

Paper types

Your choice of paper can make a lot of differ ence to the quality of your printouts. All printers work by applying ink to the paper surface and drying it in some form Depending on the type of paper the ink will be absorbed into the paper to vanous degrees and dry at different ageeds. If too much ink is absorbed the print will look faint, if it doesn't dry quickly enough it will run in the case of ink jet printers better results can be obtained by using special paper glossy surfaces being the obvious choice. An in-between solution is to use 'normal' paper, but higher quality than standard photocopier stock CU Armae Megezine experienced high quality prints when using Conquerer paper Other named quality paper produced similarly

Fortunately (or unfortunately) you do get what you pay for when choosing paper Thick, good paper is expensive, but for jobs where quality is everything, the investment is worth it

And there's more ...

So there you have it. Your choice of printer depends upon your wallet and what you actually do with your Amiga. Over the next three pages you should find our guide to several of reletive ments helpful

Ecological considerations

There was a time when printers could rightly be accused of being one of the most environmentally unfriendly computer periphosals. Indeed with the amount of tones and paper they get through they still do more harm thas mest other peripherals. But recently menufacturers have tried herd to reduce their barreful peripherals.

particulars. But recently maintacturers have treat man to reduce facility the side affects. On may or may not take the 'great couses' into account when you are buying a printer but it's worth taking into consideration the efforts of various saunfacturers as they can save you money and protect of mother south as well. For anample, some Newlett-Packard and Epion Style up interes have you to recommend the same that the down the oughts, as thereig a tandally make, when not in use. The HP Laser's power consurention drops by 180 variets to just 5 wasts when in this mode. Gives that a laser prister is often on-fice, but unused for being periods of time, this will save a for in selectricity bills!

lak usage is also environmentally and financially costly, so saving the

one vestor is also introduced and improved the considerable provides the considerable of the considerable provides to them. The printer also have a special EconoMod which uses up 50% less tonor whee printing. This is done by spacing out the dots, producing less tonor whee printing. This is done by spacing out the dots, producing less ense coverage.



A Sampony SP-2417: Poor colput, poor parlemance, but intrively cheap



& Sectorita 31-16, best all round knopet printer



4. Manusannan Tully TZE16 circop, rehable reconcilerance printed



A Citizen AEC. Anign frivers supplied, uncallent for bonn una

DOT MATRIX PRINTERS

Dot matrix printers are a cheap and reliable method of outputting colour end bleck end white peges from your Amige. The verious 24-pin modele here start from eround £100.

Samsung SP-2417 One of the cheaper 24-pin models, the

Samsung SP-2417 looks more sturdy than attractive However, Samsung describe it as having a 'Life Style Design', even though we think it looks like any other dot matrix printer! We were disappointed with its print quality

Output of pictures was faint and suffered from an intrusive amount of banding and page crimping. On the other hand the relative colour balance remained intact. Text fored better although it was a bit rough around the edges

In the speed toals it also performed poorly although better than its 160cps draft and 53cps letter quality mode specifications would have you believe. It came in well behind both the Citizen and Seikosha models, and tied roughly equal to the Mannesmann Tally T2016 However, it should be remembered that this ponter is cheep, and for your money you still get a 24-pin printer that is faster and gives notably better results than any old 9-pin models If you're looking for a low cost printer, and aren't too worned about quality the SP-2417 is worth a look

Semsung SP-2417 Tel: 01293 547788 ■ Price: £129

Seikosha SL-96

Like Crtizen, Seikosha have taken the frouble to support the Amiga and a printer driver is provided with the SL-96 Unfortunately Seikosha's driver isn't as good as Citizen's but

it's still a lot better than having no driver at all as is the case with Mannesmann Tally. The driver allows the Amiga to produc points at the full resolution of the 24-pin SL-96, and get better colour output than would be possible with the Epson emulations supplied

with Workbench In speed terms it produces a respectable but everage 192 characters par second in draft mode, and a maximum of 140 cps in letter quality mode. It also has a 'super speed draft' mode capable of 240cps but we found the pant quality when in this mode to be

But speed accounts for nothing if the quality isn't fhere. Here however, Seikosha need. have no womes. The SL-96 produced the best annts of all the dof matrix models seen here

Neither foo faint or dark and with minimal banding it won our vote as the best all round budget printer

Selkosha SL-95 IITai: 0181 309 1111 ■ Price: £149

Mannesmann Tally 12016

The T2016 is a good, low cost, monochrome, 9-pin printer If's not capable of colour output but if you want a odnier only for personal and general use, program listings and directory prints, it may be worth a look

With just 9-pins you can't expect greaf quality outputs, but for the money it's OK Prints suffer from banding and paper crimping but this is to be expected with the fechnology, and it's no worse than any other similarly priced model

Comparing its output to that of other 8-pin models we've looked at in the past revealed slightly better than average character definition. Noise levels were the most off putting element of the T2016 though. The consfant clanking and whirring of the print head gets a bit tedious after a while

It's cheap and reliable and will be ideal for the those who just want a cheap way to print out text documents for personal use if you want colour, or higher resolution look elsewhere, maybe the Samsung SP-2417 or the Salkosha SL-98, neither of which cost a lot more but offer slightly better quality output Mennesmenn Teily ■ Tei: 01734 788 711

Price: £109 Citizen are one of the few ponter manufactur-

Citizen ABC

ers who actually recognise and try to halp Amice owners use their printers by supplying Amige drivers with the ABC, Citizen's drivers. are a credit to the company. They provide easy confiel of the printer hardware and result in higher quality prints than can be obtained using the standard EpsonO drivers

As a low cost, general purpose printer the ABC is haid to beaf. It's a 24-pin dot matrix model, with resolutions of up to 360x360 In speed trials if basi both its Samsung and Seikosha competitors, and held up to the claimed 192 charactars per second.

Being dof matrix it's not going to produce brilliant print quality but it's still pratty respectable for home use. Text was OK although a little fuzzy, whilst colours were generally clearer than the Samsung also

In general operation the ABC came out well Its paper loading mechanism proved

Specification chart

non BJ200er 7040

Colour or BSW

* Type: L=Lase: D=Dot matrix: IJ=Inkjet.
Recolution: Maurium resolution webout enhancement

Spurting Canons

ek jet technology was originally created by Ceson, with the origisel petent for the coscept recorded in 1977. Coops introduced the first prieter (the BJ-80) in 1985.

elthough they demonstrated the technology is 1981. The technology was discovered whee a researcher accidentally

touched a hypodermic syringe full of isk with a soldering iron, and the lak spurted from the evriege.

faultiess during the test period and as a result we expenenced very few pages han-

The ABC printer is a good, reliable printer which shouldn't disappoint for home use. Best of all it can now be picked up for under £150 which is definitely excellent value

Crtizen ABC = Tel 0181 309 1111 Price: £189 - but check advertisers in CU Amige Magezine for fower peces.

INK JET PRINTERS

For effordable colour prieting lok jet technology takes some besting.

Star SJ-144

This model from Star was one of the most compact and stylish of all the printers we reviewed it was also one of our favountes Everything about the Star seems well thought

In every respect the SJ-144 stood out from the rest From its design, the way it stands vertically occupying very little dask space, to its paper loading mechanism (not a single sam in the entire test penod) to its print qualty which was wonderfully crisp, we could

Print quality was absolutely sugarb too. hiding its only average 360x360 resolution fade at all across large areas, while text came out glonously sharp

As a printer for handling both text and graphics the Star SJ-144 is haid to beat, and sust £249 it's exceptional value too Star SJ-144 Tel: 01494 471111

Price: £249

Canon BJ-200ex "his printer isn't a colour model and is really

only included here for reference end for users looking for a low cost alternative to laser printers for black and white DTP type work Although the printer has a standard ink jet

resolution of 360 x 360 dor. It features smoothing technology' that enhances the pant resolution, making its prints look like 720 x 360 dpi In this mode its output was better than its normal 360x360, but not as

For users who want good quality mono

prints for DTP use, but are on a boht budget, the BJ-200ex is a safe route to follow. will be more than good enough for most users looking for above average output. There are Amiga drivers available to sup-

port the printer, although these aren't provideri vatir it. You'll need to contact Canon Casos 8J-200ex Tel: 0121 880 8082 Price: £259

Mannesmann Tally 17040

Compared to the Star and Canon ponters, the 17040 looks more like a raisc from the sextres than a home ponter of the 90s. The T7040 is ugly, with firmsy bits of plastic sticking out at odd engles if the Star and Canon printers

were supermodels, this must be Nora Batty This is all rather unfortunate because in other respects it's a good, solid workhorse that produces perfectly acceptable results Although it only supports a resolution of 300x300dpi printed matter is clear and clean The colours could be more vibrant, but in

general there are no major gripes. The final verdict? A good printer spoiled by poor design and finish Casos BJ-200sx # Tel: 0121 880 8082 ■ Prion: £259

Epson Stylus

At approximately £559 the Stylus is a very expensive ink jet, so what does it offer to justily the rather large hole it puts in your pock et? The answer can be found from the first print you produce, quality!

Whilst other ink jet printers spurt out 360 dots per inch, the Stylus pumps out an astonishing 720dpi. This is a true 720dpi and is not achieved by enhancing a 360dpi mechanism, and as such gives higher quality prints

However, it's worth pointing out that you'll need to get the correct printer driver for your Amina to print at this resolution, and you'll also need a higher quality paper than normal See the 'Pont it with JAM' panel on the next page for dover datails. Custom paper is needed because normal paper stock can't hold the ink, with individual dots 'bleeding' into other dots. Once you've got the right driver and

paper it produces wanderfully detailed prints Another feature of the Stylus is that it uses a custom print head. On other ink jets when the cartridge runs out you'll need to replace

With Stylus technology, however, you merely replace the ink well - new ones clip onto the top of the printing head. This system also allows you to have two ink cartndges, one for black and one for colour One thing we didn't like about this printer

however was the start up time and paper loading system. It seemed to take an inoidnate amount of time to get going, with lots of adious noises and clicks coming from it for several minutes before it was ready for action. The paper feed system also seemed to take some time before it would print

Definitely one of the best printers in this round-up, the Stylus is highly recommended Epaon Stylus | Tel: 01442 61144 Price: £559



A Star SJ-144, compact and atplick, separk great quality hard to heat



A Cases IJ-280cx yood quality, low cost manuchrome printer





A fynon Stylen begfe maebry, bigfe gefen!



A Resolute Package Louer, jet 62. guard for OTP-test ned sessets.



A Dissessment Tally (1905); minimal memory poor setper and highly preced.

Print with JAM



If you've got a Canon BJ. Citizen 240c, Epson Stylus, HP, Star LC-24 or Penesonic KX-P1124 rinter, do youmelf e fevour and get Studio II

Professional. This is a sneppy printer driver utility written by Wolf Faust that will significantly improve the quelity of your printouts. We covered the letest version of this program lest month in the April 1995 issue. in essence it repleces the standard

Amige drivers for certain printers with new custom written vernions that take adventage of the specific edventages of each printer. In addi-tion the softwere allows you to change colour values prior to printing to compensate for different lnk quellties and the like.

At £49.95 it's expensive but worth it if you went to get the most out of your printer. It's evailable from JAM on 0895 274449.



LASER

The crême de la crême of printers. Laser based printers offer superb quality prints but at a price.

Hewlett Packard LaserJet 4L

The 4L is a great little printer for desktop pubfishing and other monochrome print jobs its compact size, styling and design make it almost perfect to sit alongside the Amiga

In use it's imprassive Pumping out a reasonable four pagas per minute it's no slow coach and with a resolution of 300dpr it'll give you tha kind of print quality you could only previpusly have disamed about!

Fonts and structured graphics come out wonderfully clear end detailed. HP's Resolution Enhancement Tachnology' ensuring that text, curves and diagonal lines are smooth and jaggy free. The biggest downer with this printer is that

there are no controls on the device itself apart from a single (eset/activate button, To onnt from it you can use a standard Laserjet driver, or PCL5 driver (if your DTP package has one) But there s no way to change its internal settings

Evan without the PD driver it's a good printer and ideal as a DTP workhorse. As an accompanement to your word processor it's wonderful although you might find the lack of colour a problem HP LazerJet 4L ■Tel: 01344 360000

Price: £574

Mannesmann Tally 19005

Hera's a printer that looks, acts and works like a traditional laser printer. We ran paga after

Printing from your Workbench

Although them's no softwern supplied with the HP 4L to let you print from your Amige there is e solution end it's chesp! A PD utility called 'HP' ellows you to

print from Workbench. This is eveilable on Aminet sites, on the various Aminet CDs or from other PD suppliers. This ellows the resolution enhancement and EconoModes to be turned off emongst other things.

page through it and experienced very few problems with the printing process.

Sadly the actual print quality and specifications let down this good start. Whilst a baie 300dpi lesei will produce notably better output than env other type of printer seen over these pages, it s now pretty poor compared to other laser printers available. With no resolution enhancement its output was significantly poor or than that from the HP model, and at times was balow that of the Epson Stylus and Canon BJ200ex ink jet printers.

What really lat the printer down however, was the minimal 512k of memory it comes with This isn't enough to print a full page of graphics, or a page of large bitmaps and fonts - as such it's really a bit useless for DTP work unless you upgrads These two fects, combined with a relatively

high pace, prevent me from recommending the T9005 If the price was lower and it had 1Mb of RAM it would be okey but as it stands it's expensive and under specified Mannesmann Telly T9005 Tel: 01734

788 711 Price: £586

Print Quality - Check it out

To test the printers we hooked them up to a standard Amiga 1200 and printed the sample files using Wolf Feust's Studio II drivern. This demonstrates the prious printer capabilities, rether than the limitations of the Workbench drivers.



urog SP 2417 Presta from the UF-241)



A Solineha SI-54 But outstanding but a gand value oil-remoter



A MT TZ918 Chang, U-per and few



A Piters 380







ck and white pobe



Nice quality although the face 2001/2004pt aboves.



S um't ofenn, ber gennt



A 100 (Jan high repainted prints





Fitting a Hard

Save soma money and speed up your Amiga by a factor of ten: John Kennady takes e comprehensiva look at adding a 3.5" hard drive to the A1200 and A600.

sk an Amice owner who has rust got a new a hard drive to go back to floppies, and they'll leugh at you It's hard to describe just what a difference a hard disk makes to your system. Not enly is it staggeringly fester than a floppy only system, but it allows a huge degree of customisation and convenience. Imagine never having to swop disks when printing from word processing or loading a paint program

The enly disadventage to adding a hard drive is that they are not cheap. You will need to be prepared to spend more than £100 probably £200 or mere for a good drive However, the geed news is that prices of 3.5" drives (as used in PCs and the Amiga 4000) have never been lewer it's a perfect time to add a hard drive to your system, so long as you knew how

The options

Selecting a hard drive for an Amiga A1200 or A600 can be a tricky business. Both these machines include IDE interfaces and have the necessary firmware built-in to work with the herd drive. They even have LEDs which are all ready to light up when a hard drive is accessed

Unfortunately, the Amiga is rather a small computer and spece considerations meant that the designers concentrated on making it possible to fit 25" hard drives. Inside the case is a special drive cradle which will hold the tiny 2.5" mechanisms securely in place. This would be fine, and indeed mery Amigs owners ere very happy with their 2.5" drives. The problem with 2.5" drives is that they are expensive, only symiable in small capacities end net very fest

By cempanson, the larger 3.5" drives are now extremely cheap, available in sizes of over 1Gb and are very speedy. The price of 3.5" hard drives has fallen dramatically and you can now buy a bare 428Mb drive for about £120 excluding VAT and delivery Of course, this still leaves the problem of hew to connect the larger drive to the Amiga. There are several problems 1 Physical space The A1200 and A600 are

not lerge mechines, and there is a limit to the

amount of free space available

2 IDE Cables The IDE interface inside the Amiga is designed for 2.5" drives which have cables of different dimensions to 3,6" drives All the same signals are present, but in incompatible connecters

3 Power The 2.5" drives take a single 5 volt level from the IDE interfece. They are designed to work in pertable PCs where power is et a minimum. By compenson, the 3.6" drives needs two connections, one of 5 volts and one of 12 volts, and draws more power The internal IDE interface cannet supply 12 volts

Housing shortage

The problem of space means that a tempting option is to house the drive outside the Amiga in an external box. There is nothing wrong with doing this and I know of many Amlga users to use their hard drives in this way If a simple plastic box is all that is required. Mactin Electronic Supplies (Tel: 01702 554161) have a suitable one available for £6 49 (the Preject Box ings available will also provide a good home. meny of which include a Power Supply Unit as standerd, and so will also provide a method of

The interface cables can then be led into the Arrige case, either by cutting a hole in the side or filing away some of the plastic lip. Great care must be taken not to over-tighten the case and severe the cable

Step-by-step procedure

Here is how en A1200 cen be fitted with a 3.5" drive in fell technical coloer. This operation was carried out using a cable kit sapplied by Eyetech Group Limited, and a Sengete ST3491A 428Mb FA6T IDE drive. If these instructions do not eeem comprehensive enough for you,



the line necesses which keep the lid on Euros per than sehers on make seen you make a note

contact a company such as Eyetech tel: 0642 713185 who provide extremely detailed notes with their

During this instellation it was decided to remove the metal shielding totally. The Evetech instructions include details on how to mount the



drive without having to do this. Before you exert the job of instelling the drive you'll need a good, well lit deek end some screw-drivers and pliers. An earthing strip le e very good ides. Yas'fl elso need tin-enipe end e drill depending on how you decide to moent the drive internelly.



Description the Rappy disk drow land 10 years remove the alreiding un in then come, among the keyband (the

Urive

Warnings

Neither CU Amigs nor the author can take any responsibility if you damags yourself, your Amigs or your hard drive by attempti ase procedures. You must carry them out at your own risk.

Warranty

If your Amiga has any warranty on it, as soon as you open the case, the warranty expires.

However, it is possible fit the large drives eside the A1200 case I've heard of drives being fitted into an A600, but I have never attempted it. If you want to fit a drive internal by it must be a 'Low Profile type drive, and you must be prepared to make some alter-

ations inside the case There are two options. The first is to remove the metal shielding covening the Amiga. space under the keyboard. The problems asso-

sated with this procedure ere as follows: 1 It's very easy to cut yourself bedly when removing the metal shielding 2 The Amige keyboard is connected to the motherboard wa a small ribbon cable. The

cable is very short and gaie needs to be teken in fitting the drive around it 3 The drive needs to be insulated to meke

sure it doesn't touch the motherboard. If it did, # could short circuit both the drive end the otherboard causing damage 4 The shielding cannot be replaced. This

means the Amiga is now in breach of FCC regulations, which means very little except you night notice some radio interference

Sometimes, if the drive is extra small, it is possible to remove only the central portion of the internal shielding, and still have room to slide the herd drive under the keyboard

The second procedure is slightly more tricky (believe it or not) but provides a much more secure way of fitting the drive. One fixing rail of the herd drive is removed, end a small portion of the internal shielding is cut away with tin snips. Two holes are diilled at the very back of the Amiga's plestic cesing, and two screws inserted to hold the drive in place. With a piece of plastic shielding, this method provides a very stable and reliable way of housing the hard drive

Cables and power

The cables themselves are the next problem, and there is no easy solution. The keen DIY fan will buy two cables, one for 25° drives and one for 3.6" drives, cut off the spare connectors and solder the wires together

Alternatively it's possible to re-piess the IDC style 35" connector onto the 25" cable Both are very tedique and error prone procedures and I cannot recommend them. There are 40

wiles to connect, and life is too short to waste on fiddly things like this A much better approach is to buy a set of

cables already made up. Several Amiga advertisers sell cables, and the price is not much more then if you had bought the individual

components and made them up yourself These cable sets also provide the necessary power connectors. As mentioned, the



A. The Hillochies program will by to find ony cannected divers. If the deep in now, it self probably cours up on 'assertion



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ng mile te offene it to fi properly. How my need home to make save the force it instructs an



The Epotach interclaring instructions as bust to make the feign score, accesses, it is therefore increasing to drill two bules on the back of the case. The instructions metado a garde shoot for gatting those or the right place.



FROM BELOW ...

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the dress note place an ounceted. The meaning power
can must be connected quality a supplied adapter which news from the Courty disk! and the kerboard and LED



CTING THE CABLE On the callot. The features life cannot be no nellon-ma nelt. Others use a small PCS to hab the how some ni coble-cians The Rad Fare on the unable abovers poet to the Spare "I read on the mether hand read to means drubbing the cable to



Bolaze din lid in inglaced, one strongthomog plantos strat must be acopped off to oligar a tight fit. The case sives then



A Setting the program LI sak the drive what out it is well some a let of

Intamal IDE interface only contains 8 volts, and 35° drives require 8 and 12 volts. The easiest 35° drives require 8 and 12 volts. The easiest location from which to 'borrow' the extra voltage supply is the floppy drive, which uses both outrants. Using a specially stepted comnetor it is possible to connect both the floppy and hard drive power cables to the Armga motherboard Both the floppy and hard drives.

will work perfectly after this procedure. With the drive housed, cabled-up and powered, it's only then a matter of prepping the drive and installing the ArmgeDOS Workbench onto it.

Static

Static electricity kills chips. When poking around inside an Amaga with the lid off, you must make sure you eight going to destroy the circults inside. If possible, were a proper earthing still (evaleble from Magines) or e DIY one made from a length of wire virepped around your wrist and connected to a redistor or water tap.

Power

The standard Amrga power supply brick is not an inflante source of energy there are limits. If you have a memory expansion and some bits and pieces such as sound samplers you should not have any problems when you add tha hard drive to the load.

However, if you have a lot of extra krt hanging off the vanous ports (such as an accelerator, a a CD-ROM drive faking power from the Amga and external floppy drives) all going at once, you might expenence problems.

One way to check is to discover the power requirements for all the extre kit you have end compare them with the rating of the power supply unit (it is on the underneath of the box). More powerful power supply units ere available from several distributors.

Cable lengths

The IDE interface is not intended for operating over visit distances: the cable to an internal 2.5° drive would be about 10cm meximum. Unlike a typical IBM-PC IDE interface, or that in the Armige A4000, the A1200 and A600 connectors are not buffered, which makes them even more prone to errors with long cables. Try to keep all lengths to 30cm or less to evold problems.

Spurious errors

IDE is a standard, but some drives seem to be more standard than others. A good drive, such as ell modern Seägate and Connor drives should present no problems. The drive should auto-mount fallowing boaring from Weikbench stored on it from power-up, not just from a warm reset. If you switch the Amiga on and hold down both mouse buttons, the drive

should be on the list of evailable devines. Some drives don't seem to like dong this, athough there et a 'few tincks First of all, if you are using a Connor drive try allaring any pure settings which specify the drive 'CAM' settling Secondly, if yill disconnecting Pin 1 from the IDE thereface. This can be done by cutting the wire on the cable to binding the pin.

Some drives cause the Amiga to clash when copying large blocks of date, or simply have read/write errors. Sometimes some hard drive-installed games don't usin. If this is the case, use the software for prepring (preparing to operate) the drive to alter the Maxifianster Speed, save the settings, reboot end try again.

and by again.
These warmings are meant to protect you, not sceep you off I have to point out that over one specially an individual scenario and the scenario an

Software

Unless you bought your drive from an Amya deale, before it can be used it needs to be "prepared." In the old drive of SCSI drives, it was necessary to cow Level Formers et also drive Because of the way in which IDE drives work, you should NVERT low level format an amount of the work of the wor

Although the Amiga is under the impression that the drives you added are actually SCSI (because the operating system uses the scsi device to confrol them), the drives ere and remain IDE devices. To repeat do NOT low level format them.

Prepping the drives requires special software such as Commodore's HDToolBox or RDPrep Your local Public Domain library or BBS should be able to help you out When run, the prepping software should

defect a hard drive is present, although it will probably refer to it as of "unknown" type. There will be a 'Define type' option, and when you click on this you should be able to select an option to read the type of drive directly from the drive fisself.

You will then need to perturon the drive. This allows the drive to be spill into two or more separate disk drives or at least rt appears that way to the Armiga. Typically you make the first partition about 10 to 20Mb and call rt. Weitkenich. Make sure that 'Bootable' is set. The secord partition is sually called Work and

it takes up the rest of the space on the drive. Save the changes to continue, but you also need to format the drives. The prepping progism will have decided on the name for the

Eyetech's Cables

The cables used in the above procedure came from the Syeteck Group Limited. They can provide the cables by themselves (for about £15) or as part of a complete kit including earthing straps, full instructions and earthing straps, full instructions and drive. For example, a \$458Mb drive and all the kit inquiring to kit it is swellable for £224 — mmerkably good value for money. The instructions which comes

with the drive are extremely detailed, and am fully illustrated. The black end white images here om taken from the manual end illustrate verious aspects of the procedum. Eystech ere elso extremely help-

ful, and if you are considering installing a drive into your mechine give them a call. If you chicken out, they can fit a drive for you for an addition £30 fee.

Eyetech Group Limited, tel: 06427(3)85 emell: eyetech@cix.compulink.co.uk Meny thenks to Alen at Eyetech for meking this festure possible, and Chris Johnston for the use of his Amige end erms.

disks (which you can change if you like) so make a note of it. Lets pretend for sake of example that the pertitions are celled 'CHDO and CHO'l. From the Shell window, enter the following lines.

format drive chd0: name Workbench FFS

format drive chdl: name Workh FFE

This will propper the direct Reboot the machine with the standed Workbench dist on floppy disk and when Workbench as on floppy disk and when Workbench loads you should see the new disk sons Select all the files on your floopy Including the hidder one sursang Show All Filest and Select All and diag frem over to the Workbench particulation. Now reboot with no disk in the floppy drive, and you should see the Amige boot faster than you knought possible flaster than you imought possible flaster than you imought possible for the property of the select than you mought possible to the select than you mought possible to the property of the select than you mought possible to the property of the select than you mought possible to the property of the select than you mought possible to the select than you make the property of the property of the property of the select than you make the property of the property



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ScreenScene



Thera is a new phenomena afflicting games publishers. It's cellad meybaism and it's a state of mind that rasults from uncertainty ebout the Amiga's

futura. "Will you bring this game out for the Amige?" We ask. "Meybe". Some games are totally out of reach of the Amige, 64-bit wonders like Somy's Ridge Racar for instance, but there's no reason why publishers can't port a PC game – evan a CD-ROM title, or davelop it on Amige

davelop it on Amiga and port it to PC. Tha amount of CD32s and CD-ROM drives for A1200s should justify this, and It's certainly



worked in the past - Simon The Sorcerar was originelly an Amiga developed title which is now mags populer on PC. If you own e CD-RDM driva and you went to eae gemes for it than writa to me et the usual address and I'll voice your opinions. Dtharwise write to your fevourite software housa. 'Maybe' we can get things rolling.

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FEATURE



• ECTS show report40
We report from Europe's biggest gemes trade show. Giente were formed, new formets were shown off end the Amige didn't do too bad either.

ECTS SPRING



Spring is traditionally the time of year when new software titles multiply, when embryonic games first see the light of day. Did ECTS '95 follow suit? Let's see ...

van though March s
Gerogean Computer
Trade Show was dominated by the new 64Amiga and speculation about its
future refused to go sway The
rival Commodore list, from

German PC manufacturer and distributor Escom was front page news for the trade paper Computar Trade Weekly, and Amagas wara present on rather a lot of stands.

Although David Pleasance was quick to dismiss the Escom bid, the show was buzzing with talk of new investment, PC cards for big box Amigas and Amiga cards for PCs. The latter idea seemed to have gapped purts a lot of people the reasoning being that a lot of people currently using PCs would profer to use an Amiga some of the time and may already have softwara tor it. Also there is still a lerge amount of quality Amiga games available at a lower cost than current PC titles, including platformers and football tries which have never translated well on to the PC.

Big fish

The show was full of big fish who had swallowed little fish: Psygnosis (who, in their time were big fish) could be found furking under the messive columns of the Sony stand, while Renegade

were, for the first time, on the Warner Interactive Entertainment stand after being bought lock. stock and barrel by the multinational giant last year Both Sensible Software and The Bitmaps have signed up for long term deals with Renegade/Warner Interactive Entertainment, but unfortunately Sensi Golf (still to being distributed through Virgin, Engine 2 are the last products which these two developers are planning for the Amiga Across the aisle from Warner Interactive Entertainment was Time Warner Interactive If only Warner Brothers Interactive

Entertainment had been there it would have completed the tim of competing companies all eventually owned by the massiva antartainment multinational Time Wamer Sounds confusing? Let me explain

Time Warner has many strings

Time Warner has many strings to its bow it is not publishing filters, must emd cable IT net working and each of these is a separately managed gent entity. The stree different "Interactives are offshocts of these of where Interactive, the obleast, came to the fore last year by detailburing and marketing and ma

Wirner Interactive Entertainment, now proprietors of Renegade, is part of the Warner Nusiel group and will be releasing Chaos and Arabitation of Renegative Renewal States of Renewal Renewal

Team work

As reported in this month's news Team 17 have fied up a deal with Ocean Software to exclusively market and distribute their games on a worldwide basis and on all platforms. This deal ensures that the Team's biggest release of the year, the Amiga developed Warms, gets maximum publicity. And judging from the response of jealous rivals at the show it looks like being a messive hit - it really could be a Lemminas-esque suc cess story in fact, so pleased were Team 17 with all this news that they were impossible to get hold of - unless you wanted a game of Worms that rs. That was the magic word if you said it loudly enough members of the Wakefield based development house would suddenly appear Impressions new lessiones aim Pewerkanes anns ve raing lots of page rucatog power companies



at four bars in Earls Court tion hall, eager to show off skill with the bazooka, blow and guilded myssile erould just like to publicly

Creative Director of Team an unscrupulous cheat I had of his worms naried - dead gone, but I can now exclu-'eyeal that he told me fo " , the bungle, go on' I did. I

ded on a mine which blew my up leaving his unharmed changes in the game since previewed it were the presse of mines, ammo drops and speech samples. The new set for multi format release is September and it's hoped to e-ertually reach Amiga, PC Perstation, Mega Drive Saturn,

Ocean had a massive presence, with their own bar and res of meeting rooms in fact all were missing was Amrga militarie, but with a healthy budrelease schedule lined up Brough their Hit Squad label and Team 17 deal in the bag they re not exactly turning their lines on the market

Impressive

ay.

pressions had a, well, impreseve line up of games for the Arrega, all due for release were being touted, three of which we've already reported on, the versions we saw on PC some all but finished, while the Armos parts of two of them are benety a month or so away These were Ultimate Soccer Manager. Mon Seas Trader and Frontlines Impressions were also demon-British PowerHouse, a new busiwas smulatron where you run lim Adresaka(e) Factor - Meage's Cylespank

power companies and gef paid a lot of money Hmmm, lantasy mrmics reality. The first of these games to be released, Ultimate Specer Manager, on A1200 only was actually 95% ready on Amiga when we saw it and wo'll review

rt nexf month. Ascon, the German developer responsible for the On The Ball series was also at ECTS with a new management sim, this time based around the world of Formula 1 racing Titled Pols Position, it will feature the current circuit of race tracks, all the relevant Imancial and menagement issues, technology, rules, the press and temperamental drivers, some of whom may have Groucho Marx moustaches and

large ayebrows Black Lagend were showing an impressive line up of product at their stand. Irom vanous development houses. These moluded recmg game Leading Lap, Doom clone Evil's Doom, an indoor ver eron of Football Gloov, an isomatric RPG/shoot 'em up triled Tower Of Souls and the AGA version of Turba Trax

There was good news for the CD32 too with Millage indicating that they intend to produce versrons of Rise 2. Resurrection, the follow up to ROTA with a new story line, more speed, more moves (thankfully) and more other things too numerous to mention or even hope for until we actually see them in operation. They are also hoping to release The Adrenalin(e) Factor, which is described in their press blurb as being an reometric 'Cyberpunk

strategy/blast 'em up A CD32 version of Pinball Illusions is on its way from 21st Century and Pinball Mania, an all new all Amiga pinball game was fouted as being possible Legends is the next big fitte











theme of the show Evan Team 17 were making noises about haiting in-house development of Amiga games now that they've entered tha big bad money-spinning world of true multiple platform



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Brutal: Pavvs of Fury

Due for release: June Publisher: Gametek © 0753 553 445



Franchady was keing in lighten' as the next poor.

ith any new or reborn genue, a trend of folow ups always seems to follow. Once you have your 'senous' contender. such as the ercade licence that starts everything off, you invantitles, that try to emulate the look feel and theme of the original come the versions with the slightly altered plottines. Finally, and usually the one worth waiting for. comes the cuta venant. See for yourself if you don't believe me -Nemesis becames R-Type which becomes Disposable Hero before ending up as Apidyn Way Of The Exploding Fist went through 6 variety of different guises before

turning into the rabbity Yosagi

Yajımba Samurai Warrior. Flavour of the month

Take a look at the games that have been easuring a stiff in the last twelve months; and you'll see that current linear in linear the world month is the bake enrup. Mortal Kombert 1 and 2, shifted turbs, combo and a whole lime of other extensions with he letter 'o' on the end, not forgetting. Damperous Streets, Body Blows—the lest goes on and on A whole buttle where the kelch butt, punches fand with a solid smack and be last one standing is the



a. Seek reket a graceful sweek to the geh?

Forget your Mortal Kombat, and Streetfighting is for wimps. There's only one way to kick some serious bottom, and that's the furry way.



one with the busted knuckles Buta's is something quite different, although the onus is still on cambet. Like any other best en up, you can select your charecter and then battle your way through a selection of opponents, with an aim of outwitting them one by one in a ring of combat, until you eventually meet the grand moster in the

closing chapters of the game. Unlike most best am ups, however, there is more of a reason to best each opponent than merely reaching the next level of the game. Gametek are including what they call the Bett System, which allows you to progress the

abilities of the character you are controlling. The way it works is quite simple. When you start on the first level, your on-screen persona is quite limited in the number of moves he or she can actually perform, basic punches and locks essentially As you work them through the levels of the game, they pick up moves and new techniques, improving their chances of success considerably to master the controls of their chosen hero, without all that has sle of learning how to soin the toystick like a windmill at precisely the right speed just to perform a simple lireball. Naturally the computer opponents will progress at the same speed, so the combat doesn't actually get any easier just more intricate and involved

Harmless fun Gemetek are adament that this game will be surtable for all ages

game will be suitable for all age
- something that parents and
other moral bodies have been



A By they re a featy looking lat.

Stars of the show

Them om no less than on different characters to select, sli of which carry different philosophies and very different styles of fighting. What's more, each of the characters has been designed to soit different types of player! Hem's a little rundows of the kind of person you have to be to fight with these guys.

KUNG FU BUNNY



Style: Relaxed Pew The sort of person who chooses Kung Fu Bueny is kind and considerate. greater pleasure than easing how they have helped snoth er succeed. However, they will have problems when it comes to making decisions and sticking to them.

TAI CHEETAH



Style: Toi Chi Chuan Devotion seems to be the nome of the game if you ant the hand of the seatah, Clinical is enoth vards the enemy, you em elest, happy to hold your sand mither than rush

towards goals and 'success'.

KENDO COYOTE



Style: Kenjutse To take control of Kende

you need to be on out and out wineer - the cort of person who wen't let anything stand in their way. All sethecks get ruched aside as you mee ever forward, ever confi-dent at times and reckless amongst other things.

RHEI RAT



Style: That Boxing Rhei Rat le something totally different. You have no tolemnce for the people you cless as fools. You have trouble making friends, as they slwsys with their ignorance.

A Cot year hands all my hann-

worned about since the dawn of computers By using professional cartoon animators to actually create the graphics for all of the char acters, the game has taken on a decidedly unrealistic look, leaving behind the blood and gore of Mortal Kombat 2 and replacing it with Tom and Jerry cartoon action, where the player's body seems to stretch and band against all laws of physics and brology, giving a

look and feel that is every bit as offective as Streatfighter 2, but far more humourous and therefore pretty harmless

One of the neat touches is the instant replay feature. If you ere over lucky enough to see Nintando Magazine's Gary Harrod pley Streetlighter 2, you'll discover that a beat am up, when played properly, is a lot more than just hammaring the fire button and



A bit of lightning always manages to shack.

hoging to club the enemy When well chorsographed, and played between evenly matched players. it can be an exciting thing to watch, and the instant replay facility 'captures' the entire match This allows you to watch the whole thing from the start, frame by frame if you wish, as a means to gloat at your opponent after you've given tham a right

royal hammenng Party!

This sort of game is best pleyed with a group of friends, and so the game includes a full eight player tournament facility, where you and up to seven of your friends can play at once as part of a league

But what haggers when you can't get that many people together in one room, you may ask After all, it's all very well having this option in there, but what if you have just moved to where equally as remote like Shephard's Bush, and you can't get anywhere near your friends This is where support for the 25 Magic AT&T modern dirvice comes in handy. This little phone connection for your machine link into your game end join in.

rather like a modern link The game is nearing comple tion as you read this, and will be available in the shops from June on Arniga and Arniga A1200, priced at £29 99.

We should have a full review next issue, so until then, watch this space

Toey Dillon





A Ten-hou known crazy ingo alone



A Looks like someons's decay a bit of 'IM.









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Due for release: Summer/autumn Publisher: TBA

t's Doom - almost! Yes, you've heard that before, but this time we really have found a top notch Doom one, and it looks bollrant! Feers a proof that the Amiga still has some of the most telented oders and developers in the world Bomb Software have been beavering away on this for some ame determined to prove the

doubters wrong, and it looks like they ve succeeded

The French teem's 3D shoot 'am up is the most technically edvanced of env we've yet seen On a standard 2Mb A1200, the screen generally updates somewhere between five and 10 frames per second, which may not sound very fast, but is sufficient to be playable, and very impressive for e full screen display Add an



acceterator and some extra RAM. and rates of 50 frames per second are common when things aren't too busy. The developers are confident of doubling the speed in time for the game's release

All of this technical wizardry would be useless if the game was no good, but there seem to be no problems on that score either Fully animated scary monsters lurk around every corner, waiting to be splattered across the walls

with your wide ranging artiflery. Details such as authantic walking effects and ominous background noises are being included to keep the tension running high

Fears is very close to completion at the time of wirting, but so far no definite publishing and drstribution deal has been finalised. We'll keep you posted, with a full review to follow shortly Until then, just watch your back

Player Manager 2

Due For Belease: April 1995 Publisher: Anco © 01322 292513 recently. The new version is

ing a new version of -onal was first released doesn't mode, there's also a Fantasy tasks of dealing in players, sotisfying the board trensfers, ground staff menagement and coeching To bring everything up to date however the graphics have been







Lesque Manager, reviewed lest month and Impressions Ultimate realistic' newspaper coverage and commentery on your skills as a manager and ebuse and indicule from your computer opponents

There are lour modes of play in PM2 the Personal Challenge where you are up against the promotion/relegation battle the dream team 'Krck Off" mode men ballers to see if you can select the



best teem against up to erght other players and the ubiquitous. never ending management sim where you keep on going until you ere a complete expert and take to the field as a real player manager' and control your man on the field - however he's not exactly at his peak of skills and fitness, so things may not go

There are loads of modern menagement sims around at the moment, but PM2 is looking good. Well have a review soon.

Final Over

Due For Release: May 1995 Publisher: Team 17 @ 01924 267776

have never ever upon the control of the control of



dimwits who think the game will be made more exciting (and more profitable) by dressing the players up in various coloured shell suits

up in various coloured shell suits Team 172 Alan Bunker reakins that Finial Over might be very useful to me though The players are all dressed conventionelly, all the national and miterational league teams are in there, a variety of match lengths are available from 1 to 5 day end imited overs and, between the player of the player of babova all, he reckons, it's a dream to play and easy to understand They've gone for 'Sensible' style



presentation with small spritts and a multi-directional scrolling playing field, one or two player mode and atracte style play, as opposed to the more traditional management and stats adopted by most other cricket slms.

The game cartainly looks interesting because, unlike most lock testing because, unlike most lock testing because I've come across, it doesn't seam to lake itself too senously. The spotte size and character make the game more accessible and interesting on the umpires are reputed to make dody decisions, which is likely to drive you up the well, but its pretty close to real likely.

The best news though is that Team 17 are releasing it at £12.99. on disk and £14.99 on CD, as part of their Arcade Sports sense of simulations, of which the best so far has been Arcade Pool and the latest Kraphy II this quelity to



price ratue is kept up, then fines Over should be worth e look. One finel word though on it is subject of Team 17 press release (of which we collected many at the ECTS). Their new Tartishers, slogan is Team 17, 100% (one-pily of the first one-price dameply of the first one-price first one-price first one-price for the price properties of unthinkable relatines of games-prives is unthinkable relatines of games-prives in the price first the price first one-price first the price first one-price first the price first the first

Virocor

Due For Release: May 1995
Publisher: Warner Interactive
Entertainment © 0171 391 4300

o be a farman moveled in or peep vau have to now a void imagination to the control of the contro

Virtual holiwhere purk called GameDrak where fun is the order of the day until a nestly strain of octopus like viruses invaded the park and caused mayhem. Enter DAVE, or the Digital Armoured Virus.

o be a famous novelest wheels who, armed with over or peet you have to make a vide irragination and a strong eye and returning the GameDrisk to within dietal and make a constitution of the constitution of t

For one or two players, Winzop is good in but official. On the size good in but official. On the first level, known as the Sport zone, the vinuses have whiteped venous sporting objects into a firmery and DAVE has to contend with fest bowling footballs and value of the size of the s

There are four zones each one with its own individual baddres the Sports zone, the Platform zone (guess what is likely to happen here), Mirtery zone and a shoot em up zone. There is a fifth, bonus



So far Vincop books manisatily playable and good fun. The dame we tested was fast and funeus and the detail and quality of the graphics was well up to scretch A vertically and honzontally scrolling shoot ern up, the pameplay is a little like a Pactrian for the mineties, though you're not

DAVE doesn't eat thin is no have to chase objects mour regularly dest chased himself and the sorts of enemies end pick as the levels are very busy with sorts of enemies end pick as Hopefully Windows should be reviewable in the next more so, and we're looking forward around here.

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Super Skidmarks 2

■ Price: £29.99 ■ Publisher: Acid Software © 01302.890.000

Thankfully Acid Software's sequel to their best known title plays an awful lot better than it sounds!

ver wanted to know how to build your own four player joystick edactor? If so, tha nstruction menual to Acid Software's letest Super

Skidmarks 2, should point you in the right direction. Rather smezingly, the manual includes detailed instructions on how to build such a device, complete with encurt diagram. Still, this is the sort of thing wa'va come for expect from New Zealend-based Acid Softwere.

They first hit the scene et tha teil end of 1993 with Skidmarks. amazingly written in Blitz Basic |t breathed new life into the overhead racing game genie, with its pseudo 3D viewpoint, jasponsiva

Hunting high and low

If you have a standard A500 this probably won't be of

much interest to you so don't reed the rest of this until

you've upgreded. Ah, you're beck, that's better isn't it? As

enjoy the delights of hi-res while playing Super Skidmerks

well as the standard low-res mode. AGA owners can also

controls and ultra fast gameplay

Wipe out Skidmarks is now regarded as

something of a classic, and Super Skidmarks 2 was originally dasigned as an upgrade to the original package with extre trecks as wall as en editor for creating new levouts. However, e full sequal made more sense as the product had expanded so much m development, plus of course it would have to compete egeinst tha likes of Team 17's All Terrain Racing as well as Acid Software's own Roadkill Unfortunately there's no track editor on offer in Super Skidmarks 2, but it is possible to render your own sprites with Imagina, and import them.



racindary the east of light supering on each gar

into the game. Although the spirtes are vary small and use only a few colours, you could still do some interesting things with this feature, such as racing with digitised faces of vous mates instead of cars for instanca. You can also use your own custom sound samples

Of more use to me is the fect tha tracks from the first Stodmarks, which at least stops the original game from becoming redundant as it so often the case when you buy a segue! There s not really any need to use the old tracks though, as 12 new ones have been included, all of which ara suparb. Some courses are fairly basic, straightforward affairs, but most are packed full of hezards like sharp dips and steep ramps. The cars from the original game have returned to rece on these tracks and there's a whole host of new models including the That's right bovine fens, one of



A Taking a corner too sharply results fo ploory of plan

2. Whet's the difference? Well... Lo-res: Offers a close up view which is best suited to the one player mode. that's lo-res in a nutshell, my friends



Hi-res: More detail and more ection on ecreen is coming to a monitor near you if you select hi-res. Things can become cluttered though.



the chempionship courses is called California Cows, and réquiles the playar to race e o complete with its own set of wheels, ageinst other similarly equipped cattlel It might sound



A As a name progresses the brack storts to stor the west and tear caseed by the similing core

end proved a surefire crowd puller around the office. The weardness continues with the option to tow a caravan behind your car (or your cow)! Hook up a trailer, and you've got the added problem of settle to deal with.

Car power

Characteristics, so the Formula
One is axtremely fast, while the
Minn has exceptional hendling in
case you were wondering, the
coves are an fact the festest vehice leatured in the game. Just
goes to show the power of

The different characteristics of the bars aren't too important however, as the difficulty level can be altered to suit everyone home beginners to experts. The other major new feature is the split scream multiplayer option that allows up to three people to take ageinst each other using one Amago.

Super Sodmarks 2 has plenty of benefits for AGA Amiga owners These include music on the options screens, up to each cors



A. While the game is looding it's possible to cadelgo on a spot of Pong



a Salike the original Nedmarks, the coreal offerer, for a two at these player agist screen years as perf for one Amigs.



A Plore's an agrica to cace while tooling a carriers.



 Δ Follow the arrows to got around the track as lest as you can.

competing at once as opposed to four on other Amigas, and e hi-res mode which shows more of the screen at once but might prove too cluttered for some But even on an A4000 there's still some noticeable slowdown in the two or three player made. Don't get me wrong, it doesn't hemper the gameplay in any way and even makes some of the faster cars like the F1 easier to handle. That isn't the point though and considering the obvious technical prowess of the Acid Software programmers I don't expect to see slowdown in one of their games

That's just e minor magle however end overall Sugar Skidmarks 2 is a much more polished and complete game than the original. The realistic racing element is still the key to the game's attraction but that wacky humour certainly helps too Graphically everything is considerably more detailed than it was in Skidmarks 7 and I particularly like the light sourcing on the cars The sound has been smartened up too (not that I know what a cow with an internal Formula One engine sounds like!) and the ability to been your opponents with a horn is a laugh (as in Micro Machines 21, if slightly pointless

Too tough

main worry about the geme is its steep difficulty curve. If you're expecting to breeze through the courses fike you did in the onomal Skidmarks, forget it. Super Stodmarks 2 is tougher than a rubbery old park chop. The computer cars have obviously been to driving school, as their intelligence when it comes to keeping on the track is considerable, so expect to linish in last place on a regular basis for the first few games or so This is probably a good thing The original game's leck of difficulty gave it a kicking in the lastabillty stakes and only the multiplayer option saved things But than how many of you were able to take adventage of the preferable modern link up option?

The car's the star

A choice of eight cers eweit your driving shills in Super Skidmerke 2, each of which feetures different hendling characteristics.



The Cow: This lan't e car, it is e fully fladgad haifer. Movas faster than Tony Horgan at a rave but is sasier to control.



The F1: Super feet and super leching in control, the formule car is definitely best left to the expert drivers out there.



The Mini: The Mini le Mr or Mrs everege that doesn't excel at enything reelly. Average handling and everage speed.



The Midget: The midget is herd to cetagories but it's bouncy end a handful on some of the more obstacle-leden courses.



The Muscle: The muscle is one of those trucks with huge wheels end consequently has great control but is fairly alow.



The Porsche: Cleary stuff indeed. Like the Mini, the Porsche ie herd to categories, but one thing's for ours - the girle love it!



The Truch: The truch is hinds like the Muscle but without those big wheels. Stiff features sweepme hendling though.



VW: Hurrah, it's averyone's favourite cer, the trusty old Bastle. Nothing speciel but who cares, it's a Bastle. Hurrah again.

Exactly With a comprehensive and challenging selection of one player games and e simply superb multi-player option, this is a title that will find itself being booted up far more than the onginal layer was.

Supar Skidmarks 2 is one of the best games I've aver played, certainly the bast so far this year and definitely the best game yet from Acid Software And for once us Amiga owners have got it all to oursalves. Hursh! III Rik Skawe



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RELIVERY

Super Loops

Price: £29.99 Publisher: Audiogenic @ 0181 424 2244

Trouble with tha ol' waterworks? Well help yourself sort it out with this crazy pipe-fitting puzzle game.



form Super Lopps is a puzzle bits of pipe to create as many complete loops as possible. You get all sorts of bizarre shaped piping thrown at you at random and you've got to quickly flip move, and rotate it until you find somewhere where it can slot in. This is OK when you only have about two or three bits of piping



4 San what I mean about hisans chapes?



A. Daly use imag and lots of office aborted over. Looks like I m on my way not.



A. The mooces get roody to do the coopy on a rather large loop is formed

on screen but later on in the game it s no toke when the grid starts to fill up and you're trying to squeeze big zig-zeg pipe into e tiny gap. However, I found the best way around this was to lay piping down for huge loops and inside it that way there is less chance of overlapping and massing up your plans to creste that

perfect loop



Too little time

It mightn't sound particularly exerting having to juggle bits of piping into interlinking shapes end to be honest it wouldn't be if you didn't have to beat the clock to do it Each level has a set time limit and as you progress through the levels, it gets shorter and shorter to the point of being totally impossible To liven things up a bit there are various other options, such as two player challenge mode, bonus games and vanations where you are shown the finel shape first and then have to try to recreate it from memory

You can use either a mouse or joystick to move and position the blocks I tried playing Super found it virtually impossible Mouse control is much easier

Sound and graphics he graphics in Super Loops are

OK The flist few levels are set in a tree end every time you form a loop, the monkeys living in said tree let out a big cheer As you progress through the levels, the background graphics change and the monkeys are replaced with various creatures who scuttle ecross the screen every time you create those valuebie loops. The music is a sort of techno-guitar type difty, and



A Yes. Doe perfectly formed long coming up



A Narity zer gross left amang time's poorly on



A fiveld potting saything on the gray Manies.

although It's not earth shettering, it wouldn't deter you from playing the game

Conclusion

Super Loops is not a groundbreaking idea for a game, but zle games If you like a good test of mental and manual dexteirty, Super Loops will keep you busy for a while Lies Collins

Super Loops £29.99 workbanch vaccion... unberel disks



One for die-hand

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Price: £24.99 ■ Publisher: Domark © 0181 780 2222

he Italien first division Serie A, ls widely regarded as the most concentreted collection of footballing talent the world has to offer The stakes are high and the rewards for winners are enormous However if you're the man in charge when your team's on the losing end of things it can all go pear-sheped

A And It's a suggety victory for loter Miles

before you even get a chance to sob Into your spaghetti Championship Meneger Italie '95 puts you in charge of a team from Seria A or B, with the aim of get-

ting them to the top of the league. Once you've endured the lengthy initialisation sequence you can decide which team you went to manage With 37 Sene A end B Teams to choose from, you're spoiled for choice. Next comes squad selection which takes time as it is near impossible to remember all the different requirements

of each player, and you have to flick back and forth between saver al different pages of team info. After picking your team and starting the season, you have a couple of weeks to make translers. This is far more awkward.

thet it needs to be Instead of giving you a list of all evailable players and letting you take your pick, it demands you specify the exact abilities of

the kind of player you're after More often then not there's no one who exactly fits the bill, so you get the reply "No pleyers available" You then have to go through the whole procedure agen, with different statistics.

The fun starts once you get to play some football. You don't get to see the action but a screen keaps you informed of the score in text form it's immersely satisfying and strangely addictive. The results update and trensfer news goes on a bit, breaking up the flow.



A Thu Litrie squard managints with Sazzn.

In between the delays and long-winded selection screens. Championship Manager Italia '95 is a very engrossing management sim. Anyone who doesn't mind hipping off to make a cuppa every ten minutes would do well to

take a look

Premier Multi **Edit System**

Price: £14.99 Publisher: Gremlin Interactive © 0114 275 3423

remier Multi Edit. package for use with vs the user to customise the

Each section is selected by first scon allows the manager's



99% which quickly makes for dull

where self control neads to be

change every player's rating to

A (so so your cook work the odit chil date option

gameplay I recommend trying it. manages. Next up is the ability to ers to be moved from team to negotiations. You want Stoichkov.

ing the cesh reserves of struggling The next two options allow you to completely rebuild league tables and change the countries and sta-



take place. So you could con

Perhaps the best and the that allows you to change tha terms used for player ratings, so instead of being good' thay can change the names of injur affects a player for 23 weaks

It's hard to rate the Premier game in its own right Assumi keep your lavounte team as to date as

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Manchester nited -The double

Price: Unconfirmed Publisher: Krisalis © 0709 372 290

The quedruple more like, Kriselis bless the Amiga with its fourth Manchester United game.



Pouls can repet on varying deproce of injury faminary reports players should be substituted to those the starry factoming net worse through you can have then as in phose those parties fatteness person or missel

t seems software companies must be mad or supremely confident to release a topty title these days. For one Ding, it's such an overcrowded conre Then you've got try to live ep to the standard set by the sugely popular Sansible World of Soccer, regarded by many (myself, included) as not only the greatest looty title ever, but simply the Best computer game ever So what can The Double offer that

Well, there's pedigree for starters. The Manchester United the years now with each succestive game receiving more graise than the last. The Double is built around an updated and enhanced version of Krisalis' last Man U geme, Manchester United -



Check out manuals of alors via the action region

Premiar League Champions The Double features exactly the same control and gameplay as Premier League Champions, but the overhead perspective has been ditched in favour of an isometric viewpoint

What's new?

The main addition to the game engme is a comprehensive editor, which works in a similar style to Grernin's Premier Multi League Edit System for Premier Manager 3 (as inviewed on page 56) Unlike Gremlin's editor The Double concentrates purely on the editing of players Everything from their nemes and skin colour to their vanons skill ratings can be altered, or If you want, players can be created from scratch Leagues can be built up in the same way, while a nifty kit design potion completes the editing package. Players can now be bought and sold too, courtesy of a transfer feature Gameplay remains exactly the

same as it did in Premier League Champions, which is hardly a bad thing. The excellent Tacti Gnd is back. If you're not familiar with the system, it allows piecise control over the positioning of a team's pleyers on the pitch regardless of their overall forms tion. Use it well and it's a sure fire way of increasing

your chances of winning For such a powerful systam it's a big sticky piece of chocolate cake to use (that s a good thing) and puts the tactics system in Sensible World of Soccer to shame Other key teatures of the game include up-to-date squads and numbers as well as bookings

and suspensions. Some of the team selections are dodgy however If you're a big footy fan like myself, you'll wonder what the likes of David Kerslake are doing In the Spurs detence when more regular first team players are sitting in the reserves. Also some transfer values can appear conservative, but these are alterable by tinkering with the player's skills. Anyway, playar valuations are next to useless most of the time, whoever would have thought that Andy Cole would have been sold for £7 million for Instance?

Trying too hard

The onginal Manchester United Premier League Champions had its cntics, but I preferred it to FIFA and rated it a close second to Sensible Soccer The problem for The Double is that it has been released at a very unfortunate time with two competitors offering better products. In my opinion, as far as the arcade game is concerned. The Double is beaten in every department other than sound when compared to the seemingly unbeatable Sensible World of Soccer | also think that Gremin's Premier Multi Edit system mops things up as fai as the editing options go

Don't think that The Double a bad game, because it isn't The control system, once mestered. is excellent and the presentation and graphics are much clearer than those in SWOS. The transfer option adds plenty of lestability to the game and stops the annoyance of seeing the likes of Andy Cale still at Newcestle months after he has left, a prob-Iem which plagues SWOS (you've got a thing about Andy Cole haven't you? - Ed). It like me you're nuts about football and footy games then The Double is an ideal second purchase. But if you're after a game which is the bast in its market then I'd recommend Sensible World of Soccer for arcade fans and Premier Multi Edit System for footbell management



hu misting puckage effense a player a oteta to i grad or humated. Ten can oven change the play-



A Toe Goodfi's parapactes or aim to HTF, ratios than the marked fram parapecton funtered in th outlins frames Laugus Chropmen.



A Krisalis recken this gasta accurately recruite real his leasy but ham can it whose Toddy Sharingham has puck nameded to move a pressity?

lovers Unfortunately, The Double suffers from that old problem of trying too hard to appeal to all gamers it succeeds but there are other titles out there which, in my opinion, do a better job Rik Skews

MANCHESTER UNITED

	yegithach varsion L3+ number of fisics
•	graphics 81%
1204	estability 28%
Zana	playability 22%
2100	OTEMALI

neme Park

■ Price: £34.99 ■ Publisher: Mindscape © 0444 246 333



ullfrog's Theme Park finally makes it to the CD32, efter scoring e hit on just ebout every other computer and consola format

Despite the subject matter. Theme Park isn't a white-knuckle thnlis extraveganze Quite the opposite in fact. There's all the fun of the fair, but you don't get to go on any of the rides. Instead you play the manager of the park, with the job of building an entertainment centre to rival those of Walt Disnay

Before you start, it's advisable to read the 'New Business Partfolio' (why can't they just call it a menuel?) as it's nigh on impossible to get into the geme without any background knowledge. The instructions ere bigger, longer and chunkler than a box of Yorkie bars, but then big gemes call for big manuals.

The trippy 3D cartoon intro sequence gets things off to e good stert. As the game loads, it checks to see whether you've got a lovged or a mouse connected. and adjusts itself accordingly. If you charges move store to all your solds with your name and datails on the set-up screen, unless you have a keyboard attached However, you can with a lovoad.

Strange but true There's a builtin beginner's guide to help you get sterted, elthough it's still e bit confusing to the first time player Once you've pessed

A Whoe - all the few of the foir. I

the Olympien task that is the beginning. bought e lew ndes, daciphered how to opan your park end started the game properly, things become more fun. Wetching your little customers milling around with their balloons is quite entertaining and the sound effects and music are vary pleasing It's like Sim City with rollercoasters

If you have been playing for a couple of hours and you want a rest, you would think it wise to save. In this version, you cannot save. your ectual park, only your details and tha amount of money you have. This means that next time you come back to it, you have to stert with en empty park, which detracts substentially from the gama

speads, which is handy if you want to get nch quick, but the top speed is a bit of a scunner as all the animations skip a few



A Build up your droom pack from a tailt of group to a

framas and end up looking like something from a weird Eastern European cartoon There's plenty of setisfaction to be

gained from building your park and watching your customers enjoy themselves, but the lack of a proper save game feature spoils it all. Heving to rebuild the park every time you pley is demoralising, and will be enough to put many people off for good.

SLW



ATR CD32

аттир (tsell в теороскость 65%) last month in its standard Amiga incarnation ATR is now available for the CD32 It's a direct port from the original flopthere's nothing added there's nothing taken out either What we've got is a scrolling



Special each of which handles slightly differantly. Before you race you can do a bit of shopping upgrading your car to suit you driving style Nervous extre grippy tyras. while speed freaks cen

power Shock

a facey a day on the french meet? boost the engine

absorbars and power steering are elso avellabla for generally improved performances Tearing round the cleverly designed tracks is thrilling Sometimes they're so cleverly designed that you get completely lost and end A Free name weachings as the meaning track

backwards due to a lack of clear directions. You really have to know the track bafore you race it. Also, some of the obstacles are so small and unobtrusive that they look like bits of the beckground, until you crash into them It really gets the adrenaline going though playability win through and you forget about

I would have thought they would add C quality sound dunno the conversion, but no matter it's thoroughly addictive and, like a good record, you'll keep coming back to plan the best bits

SLW











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I Price: £14,99 ■ Publisher: Team 17 © 01924 385 903

nlike bowls, which involves people in tank tops and slippers rolling 'unround' balls around a village green, Ten Pin Bowling is the wholesome pastime of mafia bosses and families from Milton Keynes Basically skittles using big balls with finger holes I never thought it would look good on screan but Team 17 have changed my mind There are three main play options A Single senes where you can play against up

to five computer opponents in one, three or five full games, Pairs involves you teaming



· Mice assumities counds off a satisfying throw. He stelles through

up with a partner trying to beat another coupla with your combined scores, and Tho consists of two teams of three competing against each other over a set amount of games. There are other variations such as Matchplay where you must win a certain emount of games and Spares where you have to knock down awkward 'splits' in case all of these sconng methods gets confusing there's a handy computerised score sheet to keep track of ell the points

Tearn 17 have tried to make KingPin as closa to real bowling as possible, so you also have to contend with waxed floors which have slight curves and bends. To combat this you can choose from a variety of ball weights and can increase or decreese the strength of your shot accordingly. There's even en option to muck about with your opponent's statistics to give you that extra edge

KingPin on Amiga received a very respectable score of 76% when it was reviewed in the March issue of CU Amiga Magazine It was credited with good graphics, involving gamaplay and intuitive control, and nothing whatsoever has changed on the CD32 varsion. Control is just as simple, you



A I would like to point out that I have norm droused like they free

can move the player's position, alter the ball's weight and the power of the shat. The sound is mainly limited to pin racking noises and random announce-



A Way bey I'm an strike! It me early stan I'm only joking. ments from a female voiceover telling people to move their cars ewey from the

entrança it's an original concept though and et £14 99 it's good value for money #



A Fe spher's Halmer Build drawn on than pages?



benes renging from little jobs such as your Aunty Emme's corner shop to

You play the part of a young commonl who

The Bartles had a youg about wakenes or

■ Price: £29.99 ■ Publisher: Neo © 01438 848 004

won a year's free supply of taxi ndes - just blags. Plotting a coup involvas staking out screen, talking to everyone to find out who might be useful and what parcentage of the

t's back to the hotel room where you sit you've got to get one or more accomplices The hotel phone is just the job as it links you if you get caught you'll end up in a that you might have made

There is not much difference between



A Mick Japan. "I'm not yearing for a lady, part working for a friend

this and the Amige version. Some speech has been added, but it's only in the form a monologue/nairative from the men chashady characters had been given voices III



Amiga Frame Grabbing has just taken a Fall... in Price, but definitely not on quality

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winners Ward

ice: £34.99 🖿 Publisher: Empire © 0181 343 7337

Civilization's addictivit's creator, Sid Meier famous in the computer enter-

gama still ranks among the top three favountes if you ask games players and journelists now - four years efter it was

race, trying to keep at least one step ahead of the opposition by territory and daveloping new

technologies, products ato You can have up to seven computer apponents and can play the geme on Earth or on another custom built planat. You start the game in 4000BC with very little opposition but as the boundaries of science and discovery widen you will ancounter will ensue

Millenia later, if you are not destroyed you will see rockets, jet arcraft and atomic power and if they don't dastroy you wall

Lemmings has sold over 2 milion copies world wide and has been Psygnosia' biggast success story. The concept is simple anough, but the practice is mind are suicidal rodents who, every year in the Fjords or Norway, take it upon themselves to jump off cliffs an masse. In the game they ara equipped with a number of animals don't have, such as shov-

> if you get sick of tham button with hilarious results. The basic idea is to stop them from aliesdy know about Lemmings you've

als and umbrelias, and

moon for the last cou-Which brings me to Frantier, in which you can start off on a magn if you like Frantier is the product

became femous in the 1980s for Elite It's the follow up to this game and involves trading, lighting, mining and exploration of e vast universe, build-

ing up your status and your space ship. That that matter) can be viewed from a variety of different angles

and all communication with the outside world is carried out from within its confines. You're not just

successful you can upgrada. which in turn increases your range and money making possibilities

Frontier is possibly the biggest game ever packed on to one double dansity disk. You can choose from a wide variety of 'careers' to make money, including transport, mining or military and both your skills as an overall stratagist and



A Board He, safe latine, It's Laureigns of poster



A Frankler II you hadn't grouped skeetly

as e ship to ship space combateer will be tested to the full Although it's a good game I must admit that I'm not mad on Frontier but the general consensus of everyone else in the

Empire's markating strategy though Surely everyone has

vau do

AD





been living on the ace Hu

Price: £14.99 Publisher: Hit Squad © 0161 832 6633

n space everyone uses the same clichés, especially when trying to describe a game here a squad of mannes



infiltrates a space ship to destroy enemy aliens. But I won't Once upon a time Gremlin produced a game called Space Crusade, based around Games Workshop's Warhammer 40,000 series of tableton role playing

games, it was best played as a 2D game but there was also an isomatric 3D view, which was slower, but more illustrative Not content with this admittedly rather good effort, Games Workshop teamed up with Electronic Arts to produce an

even more realistic game, where the main view was first person. When a Soul Sucker attacks you, you can see him coming through a central screen on a control panel (see left), and it's not a pleasant sight. This control panel also allows you to view what up to four other Marines can see and has an overhead map, showing your location in the 'hulk'. There is also an overhead 2D viewing and weapons screen and the action takes place in real time Space Hulk held pole position



for this type of game until Doom appeared and few other role playing games have the same sort of shoot 'em up action and genuine suspense as it. To succeed at the 50 odd missions you need to know the controls inside out. It'll take you a while to get acclimatised but Space Hulk is an enjoyable and rewarding

game once

Dreamweb 2

Hello again and walcome to our second and final solution to Empira's top adventure gama, Draamwab, Sitting comfortably? Then we'll begin ...

The TV Studio

So to the TV studio. Walk as far right as possible then as far down and go left. Use the gun on the old security guard. Examine the barner controls and use them Walk left and up into the studio. Pick up the passcard which is hidden under the brochure. Go left and down into the storeroom. Examine the fusebox, use it with the screwdover and take the fuse. Now go far right and up the ladder Examine the winch control and then open it. Replace the blown fuse with the one from the storeroom. Use the winch control, Solat, one



Chapel's House in the Dreamwab, talk to the keaper once more and

nea examine and use the right hand door in the main dor. Use the key on the plinth as equal. Ryan w nuterialise in a car park, Go left and examine and ike the wire cuttam from the bach of the car, Go to Chapal's House via the travel screen. Wall to the wall, examine and then use it. Examina the cartridge and then take it. Return to Ryan's flat from the travel screen and put the cart from Chapal's nouse in Ryan's interface. Use the antwork interfece and LOGDN with the tag BECKETT. Type SEPTIMUS as the password. Type CARTRIDGE and thes READ BRIEF.





Sartain Industries

Dacs back is the Dmamwab, telh to the Keeper and pay special attention to what he says about, 'hnowing someone wall'. Go as far south as possible and tahe the purple crystel.
Go as far left as possible, examine
and than use the door on the bottom ght. Use the key on the plinth ex sual, You'll materielise outside parhy's Bar and from hem use the avel screen to return to Edan's ouse. Walh left to the bed and examine the organiser hidden under Edan's purpla shi

iden's purple stuff.
Use the organiser and heep press-ing the N or P heys until Sartain's address comes up. Go bach to the lift doors and take the cartridge marked 'Sartaia ladustries' which is resting on the table. Leave Eden's flat and mturn to your own flat via the travel creas. Pich up any mug sad stick it

in your inventory, you'll need it leter. Use the network Interfece wit Eden's cert. Use the network in the usual way and type LIST CARTRIDGE. Now type READ CODE and take down the number. This will let you into Sertain Industries. EXIT the autwork interfece. Proceed to Sertain Industries vie the travel screen and entar the doorcods 7833. Walh to the computer and use Ryen's gun on it. Go left and enter the malfunctioning lift doors. Examine and then use the lift controls. Use the crystal

Head down, wells to the briefcase and exemine it. Take and use the papers to get Chapel and erwood's eddresses, as well as other useful gossip. Welk to the door on the right, welk up the eteps end then welk to the doorstep. Walk to the termac and ese the gun. Boom, there goes person number three!



A Keep pressing the U or Please to get Sartaio's address.





insurs to the travel screen and go to the boothouse, semine and then use the milling. Walk to pies and use the last with the mug which you collected from Ryan's flat. In right and walk to the junction box. Use the junction of, firstly by itself, then with the railing and finally the

box, firstly by itself, usg. Walk to the bole is the beloosy, mamine and then me it. Now examine the hole in the windown and exemine and use that too. helk to Underwood with to her and then me the gun.



The Ruined Church

were again Ryan will return to the Dreamweb so talk to the keeper keyan for the latest gossys (6 to the bottom left comder and use the far left condor Hey guess what? That's right, use the ghinth with the key agen. Return to the travel screen and go to the chick "burch. Walk to the gate, examine it and use the wire cutters on it Aliki to the stag. Once inside the church." Walk to the hand.

Walk down twice, then walk to the cloth. Take the cloth and then drop it. Examine the alter and then the hole. Use the hole with the hand. Exemine and use the eltar, then examine and use the nole. Now examine the iar, open it and take the gem. Walk to the stone slab and use it. Now examine and take both gams. Examine and take the rock. Now walk to the stone tile and use all three gems on the stone tile. Walk night and then up. Walk to the statue, examine and then use it. Match the image with the one in the diary of a madmen. Push the crystal once you've matched the image. You II hear a noise and this means the gate blocking Ryan's path to the south is now open. Search the entire erea for another seven rocks. They're all pretty obvious but the one in the room to the bottorn right can be difficult to spot. It's sitting tucked away at the top right. Once you've collected all the racks, walk to the mine cart, examine it end use it eight times with the rocks you've collected Once full, use it agein and it will shoot off down the screen and rrash through a wall. Go through the well, down and take the first left. Go down egain, walk to the hole examine and use it. Now go



left, up, up and left Hurnsh, you've finished the game! Almost As soon as the diallogue finishes go right. Now it's finished for good and so's Ryan judging by the emount of bullets he takes.





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Lords of the Realm



D

This month we look at invasion strategy and controlling far too many counties for your own good.

entrolling lots of countles can be e serious pain in the neck it means more work, more risks and more exposure. On the other hand it increases your potential revenue and provides you with multiple apportunities for Trade And hey it's also the aim of the game In order to hold on to your new conquests you will need to make sure that your home county is connected up to them, otherwise you will lose control If an enemy army invedes or the peasents rebel in an intermediate county tastles you have built will disappear too, leaving the accupying army stranded. To evoid this, there more than one common border with

you will not only lose your far flung realms, any by to order your conquests so that they always other counties under your control Remember hough, the same thing will happen to opposen nobles and to avoid having to destroy or take all of their castles, why not make them magically disappear by cutting them off from





a find on poother coutle has been destroyed by the farces of \$ir Gay,

Leap frogging

Taking and controlling every county you come merely make your job more difficult in the long run If you completely surround a county then just leave it alona it will not bother you again When you're done with most of the other Lords you can then conquer it if you want - but as igna es it a not bothering you there's reelly no need. You can also station soldiers in unconmiscurcas. Bewere of these counties, though, they may seem empty and undefended but they can contain a surprisingly large amount of pessants and may need a large army to conguer if you wish to do so Manually controlled battles can be fun - if

you have a 50MHz machine! They are slow and laborious otherwise, but you will need to take control if you edopt herd level warfare because the enemy will best you easily if you don't. Taking control is also tembly tedious if you are fighting with less than 500 troops. If you've read your handy guide to hit and defance points you'll discover that swords are best for both, bows have the longest range and crossbows have more power but less range then regular bows Knights are cool too, but expansive

Move your army forward a little (leaving some swordsman or knights in reservet, placing erchers and crossbowmen just behind the swordsmen, Target the enemy with your archer's bows and let them come to you You will pick off a lot of troops this way Once they have nearly reached you set your swordsmen on them. At this point withdraw your archers back to their original position. See how the battie is going and if necessary send in your reserves to speed things up and finish them off

If ell is not going well and you are being really slaughtered, withdraw your troops and set the archers finng at the enemy again. Let the enemy follow your troops into the fire end then release your reserves on their flanks. The white fleo is basically useless, you might as well fight on until all of your troops are dead

Siege warfare

When besieging a castle don't try to storm it streight eway Reduce the amount of fighters



A Rail on him sent Dor \$1200 craphed after then, but threshooly not belong conquering the whole country and deleating the other Loc



A Thay way would consupts, but it can also buy 1,100 butstee

to zero and increase the amount of builders to the maximum. Then build as many trebuchets (larga destructive catapults) as possible Build ladders with any spare men. Leave this screen and wart until the next season. Continue building trebuchets next season until you have the first season's catapults at the weakest and lowest outer wall, but don't eend in any ground troops yet. If the walls are large you may need some slege towers but these take a lot of men to build and may not be of use

Once you have knocked planty of hales in the castle wall it's time for a mass assault. This should take place in season three or four, and if you have destroyed enough walls each season with your trebuchets then it will fall very quickly Remember, when using ladders or assault towers your troops can be doubled up. You may also be able to take a castle by aiming ell your trabuchets at the flag. Keep on pounding it with enough firepower and it will fall To defeat all of the other lords you may

have to neglect parts of your longdom, and peasants may pust you from some counties, don't worry about this too much (but try to police rampaging peasants and ex-soldiers or they could make things difficult). Once the senous opposition has been defeated you will be made Lord Of The Realm whether you control them or not

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LEANING DVER THE EDGE



least, or buy a big box a end edd e 24-bit card. But he said he didn't have the money and wanted to know why his

Amige couldn't do it se standard. I hear this ergument frequently. The Amigs is a fentastic computer end its beeld hardware is better than PCs and Macs which cost much more. However, Mec and PC owners constantly upgrade their systems (how many 286 PCs are etill eround?) edding 16-bit sound cards, graphics cards and era therefore oble to edit end display

much higher quality pictures. Unfortunately, some Amige owners don't seem to realise this. They essume that their unexpended Amige will be able to do everything that expanded PCs do end when it doesn't they complain. It's Commodore's fault, Amige softwere lan't sa good, developers eran't supporting the Amige ato,

Strengely it's never their foult. They don't seem to consider that if they spent more money on their Amiga, softwere developers would be able to produce better programe, Let's face it, Microsoft Word would never run on 286 PCs, It's only because PC owners have upgraded that Microsoft have been able to develop and release such a powerful progrem.

If Amige owners would do the same the Amige merket would be lot stronger then it is now. Likewise softwere developers wouldn't be held book by the slower systems and could devalop big powerful do-everything applications. As a result we could alost at the over-priced PCs that our neighbours had bought. If you chose to buy e basio model Amige don't expect it to do what the super expended PCs and Mace do and don't comsiein when it dosen't.

et Serious

If last month's Get Serious pages were a herdware bonanze this months are e softwere specteculer. Firstly there's e deteiled test of Amige peint programs end a look My-Money - a new financial package. But it's not all software; there's a super new genlock tested as well. It's all here in the next few pages.

b	CTV Micro	Studio	2000								. '	7	2
•	It's big, it's covered in			lav	e w	ήth	this	ell	sin	gin	g al		

My-Money	74
Got a problem with year cash flow? Andy Leaning checks out this financia	i plenne
Will it halo or is it not an to scretch?	

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Micro Studio

Make your own pop videos, sci-fi epics, gress roots documentaries end corporete presentations with CTV's new video mixer.

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nky pop-ridoo typa effects ere possible with skay and lessakes features

vidgo inputs, chipmakey, lumakey

graphics, four types of wipe, three

channel stereo sound mixing with

tion, and separate audio and video

monitoring, It's available in two ver-

sions, with or without an internal

time base corrector It all sounds

very impressive, but can it live up

to such a promising features list?

Connecting up

bass and trable EQ, noise reduc-

and genlock mixing of Amiga



A Ray to a straining colors backfrop from your Amega. and you're trainsported to Freehout City Amenai



A The Micro Stefan 2000 to well stocked with notice and video lapets and autpots, effecting both VRS competitality along with standar outputs for rates, notice and competing graphs

And... cut!

Most Amiga genlocks overlay

graphics in or out. In general,

that's about as far as they go

graphics onto a single video pic-

ture, with the option to fade the

This is fine if all you want to do is

add some titles or logos to your

video productions, but if you're

serious about making your own

more outputs, and more features.

films, you'll need more inputs,

The Micro Studio opens up far

powor to create professional-look

ing vidoos that cut and flow next-

Four wipes are Included for

more options, giving you the

ly from one shot to the next

transitions between the video sources They slide one picture

over the other, exhor diagonally,

They're hardly dynamic, but can

ingly Thore's also the option to

switch or fado to black and white.

This can come in handy for transi-

add a bit of spice when used spar-

top left corner of the screen

houzontally vertically, or from the

s we mentioned in our video sources. These can be animation feature last either S-VHS (Y/C) or composito month. CTV have sources, although both sources released what's potentialmust be of the same type ly one of the most powerful tools There are three sets of video outputs, plus a through port for ever available for Arniga video producers. The Micro Studio 2000 is a video mixer that combines two

keeping an eye on the computer graphics on another screen. Tho main output offers both S-VHS and composite connections, and there are two of each, giving greator flexibility for monitoring and recording. The third video output is a composite connection, which takes its signal from which ever channal is assigned to the preview monitor This allows you to monitor one of the video sources on a separate screen, pnor to fading it into the main display

On the audio side there are two stereo (ine inputs (phono

sockets), nius a monophonic microphone input (mini jack socket) The combination of these sounds is output through a pair of stereo phono socketa There's also a monophonic line level phone speket which can be used to monitor any of the three separato sounds, prior to fading into

the main soundtreck



A Realises bright parts of velop with produce.



The main attraction for most uses will be the chromakey and lumakey functions. Those replace parts of the video picture of a cer tain colour (vellow in this case) or brightness with the image coming from the Amiga This Is brilliant for creating special effects and abstract visuals. For example, if you ware to place your subject against a yallow backdrop, you could then 'key out' the back-

Getting hooked up is a simple anough affair A lead comos with the Micro Studio to connect it to your Arniga's RGB output The lead that came with our test model was actually too short to leach around to the back of a big box Amiga (A4000 for example). although we ere assured this oversight will be rectified on units supplied to the public Along with the Amiga, you can connect up to two



A Tore night rate day with another baying effect.



A SE April 1895 - Landon ha by nuclear bloot. Only bidding! We suncted the ap with a copy of D7aint!



6. The gerfack feature arethe arell, havely for adding

sound and replace in with the sering algables, immerprizing years sepect mice e-whole new world short mice who is new world short study. He unsakey could be used on an outdoor short to the series of the series of the series and the series of the series and the series of series series of series of series se

Genlocking Amiga graphics an top of video pictures is easily done. The background colour of the Amiga picture is cut out and replaced by the video which shows through from behind

Audio mixing

As part of the Micro Studio's mission to give you everything you could ever went in one box, there's a decent audio mixer built m This offers two stereo chennels and a microphone channel each of which has its own fader Either of the stereo channels cen be assigned to the audio monitor output phone socket. This works Ske the monitor autput an e DJ moter, elthough you can't plug in headphones directly, you'll need to route it through a hi-fi or an amolifier first. Bass and trable controls allow you to tweak the overall sound, and the level of cut and boost is enough to make a substantial difference Finally there's the norse reduction switch, designed to take out reque frequencies picked up from camcaider microphones. Sound quelity is fine, and the addition of the noise reduction and tona con-

Conclusion

ng

The Micro Studio certainly has some mouth-watering features, and in general, they re implemented pretty well. The "motal effect" plastic casing is quite sturdy, and the fader travel is fairly smooth. One extremely instang feature is

Check out all those knobs and sliders THE CONTROLS Lays and tradic controls are sociated for adjusting the frequencies of the camband excreptions and two stores has expende MIPS For Ellinor REY ADJUST. The chromotory and forceboy random nonwere sen be relected be not according to the moved of unlaw or light in the (al Those are wood as seurce to existing laboral price WOODCHADAE SEIRCLIN Uleurs as restaut switch etronou n nuleur rod lank med where gentare PRE FAIRE LITTER mpan's to the units pooling Ny 212 ands hofery fellow these PREVIEW Salacta which ents the velocity picture is sout to the separate Provine monita nature, needed for timing AUGUS FADERS Adjust the levale of the three THOSE AND CUT BAILED KET MVENT Sectabos thu CHESHALIMATES SELECTOR AND SELECTORS. The CUT Cuts straight from Switzhen between thromakoy, eram moutrafe fan genaral position of insynd gragines with the ridge dictors. fases and cate femalisy and peefect racesp.

that if your video source isn't assigned to the time base correct tor, and there's a break in the signel (such as when a camcorde) switches from camera to tapa model your Amiga is likely to crash If the TBC is assigned corractly, this shouldn't happen, but it's easily done all the same, especially during the setup procedure. The other problem regards regards compatibility with pertain Amigas (in our tests, A500 Plus, A1200 and A4000) This was rectfied on our second review model with a stop-gap fix, although we're assured that units shipped from now on will include this fix as standard within the box Those problems asida the

Those problems aside the Micro Studio 2000 is a wonderful tool. The combination of cudio and video mixing, chroma and

luma key effects, genlocking, multiple wipes and stecks of mouts and outputs makes this a very powerful bit of krt. Compared to your average £200 genlock, it's not cheap, but then it really is so much more than just a genlock The optron of S-VHS and composite VHS connectrons gives comnetifility with lower-end equipment, but also takes advantage of superror S-VHS picture quelity when evadable. The time base corrector will be a necessary expanse for those using domestic VCRs and camcorders he non stable sources) If you use only stable sources however, then you can seve yourself some money on the overall pince A TBC can he fitted at a leter date if the need arises

The Mrcro Studio 2000 comes



A Norw's morther price in action, disposal the time.

recommended to enyone who is senous about using their Amiga to produce professional looking videos. It's also worth noting that it's the only chroma/furnakey unit still evariable for the Amiga, as RocTeo s RocKey has now been discontinued.

Tony Horgan



A Ree's use of the blices Studie's supporter action. The picture of the abuset tower so fedure is from the top full cursus of the accuracy conducts and the company value picture besents.

MICRO STUDIO 2000

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ATSIO (and an offer with the option to beyon without the FBC line and change

An extremely powerful video production tool.

production tool.

y-Money

Price: £25.00 Developer: My-Soft Supplier: My-Soft

Yet another financial planner for your income. But does this one match up to the rest?





y-Soft is a company few people will have heard of before now In the great traditions of Amiga developers it is a small company developing

affordable software My-Money, their first program, is a financial planner All programs of this nature work in a similar manner. They allow you to record and track your Income. spending and sevings. The bigger, more professional progrems like Easy Ledgers provide company finance management, taking into account invoices, puichase orders and so on,

But My-Money Isn't a heavyweight program in fact it's tiny by

Available from dy-Soft are selling My ney direct. Their address is 71 Springfield Avneus Whiteheven CA28 BTT. No telephone number vaa available at the time of writing

comparison and is aimed at individuals who want to plan their own fiscal well being It allows you to set up records of your bank balance and savings, to automatically calculate recular incoming and outgoing payments and then monitor them individually at as a whale, showing your total financiel status. That is about the extent of it

Keep it simple

What makes My-Money special. however, is the ease and simplicity with which you can set up, maintein and track the movement of your money. To a large extent this is because it's far more limited in what it can do, compered to the bigger alternatives. It evoids the 'features overload' syndrome suffered by similar programs. The basic range of facilities is all that it needs, and enything extra would complemise and confuse

An example of this Is the way regular transfers payments incomes and bills ere handled

its functionality

The program can keep track of your money no matter where you choose to keep it. You can set up savings accounts current accounts, end have it regularly

allocate money to your pocket This is something I particularly like. I've tried eccounts programs before that allow you to define salery payments, end transfers to savings accounts but they fail if you forget to record when you've taken small amounts out of your account, and before long the program is completely out of sync with your actual balance

Pocket money

With My-Money however, you can have it transfer £100 a week to a 'pocket' account. If you do take more out you can of course still record it. You could do this with other programs, but the case with which My-Money lets you do this seams to have en affect on the subconscious, and I found myself make an effort to keep it up to date.

Unfortunately, it's not all good news. The program has buos, and we're not talking heed lice here either, but bloody great big cockroaches that scemper across the floor it conshed with alarming frequency, requiring a complete reboot of the Amiga. Some of the graphs were impossible to read as some of the tops of the bei graphs were outside the viewing area Error messages appeared that were completely meeningless, and at times the program just locked up, forcing

yet another reset Another annoying aspect about My-Money is that once you've started entering data there is no way to abort the operation or cancel it. There ere hardly any cancel options. If you eccidentelly clicked on a peyment button for instance, you d heve to enter a payment, which couldn't be deleted efterwards. This could lead to confusing account statements. More cancel options and delate functions are definitely needed if this program is to be

used for anything more than on the odd occasion

Conclusion

My-Money has the makings of a good progrem but until the the bugs are sorted out, I can't recor mend it. I look forward to seeing a new version that overcomes them failings as it will be a very useable program, Perhaps Version 2 will d just that

Andy Leaning



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Multimedia Toolkit

Meny of the CDs that we've looked at in previous issues have been let down by poor front ends. Most CDs give you nething mere than Workbanch, levening you to furnible your way around the contents trying ta find programs to load the files and figure out strange meaningless. File names.

However, the Multimedia Boolkt is different it features e simple menudriven program that allows you to pick the type of file you went to work with images, samples, demos ato Click on this and ellist of cerrespending files pops up, click on the file end then on an ection button (view for instance) end hey presto there's the file Wonderful!

Multimedie Toolkit alse contains e wordge of reasonable quality fonts, colour and mono chip art, music modules and samples which are accessed via Workbench. In brief, this isn't the biggest or best collection, but it certainly is the easiest te use.

Weird Science, 1 Rowlendson Close, Leicester LE4 2SE,

Tel: 0116 234 0682 Price: £19.95.

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/ U



The Beauty of Chaos

If you like frectals you if just fall in love this disk because it's filled with nothing but fractal images. Some of them are impressive, some are rather dull, There are 50? pictures in all of the mandelbrat set. These are seved in methy IFF or GIF formets and e viewing program is supplied en

However, we had problems opening many of the GIF files in any Amiga GIF reading graphics pregram. There ere also a number of TIF files on the disk, should you went to see the frectel in more colours (the GIFs store pictures with just 258 colours).

It would have been nice to see a collection of frectal generators on the data as well letting you explore the world of frectal yourself. And maybe some fractal animations, let's face it we're not pushed for space are well if you're into this land stuff you'll love it althorouse a world.

if you're into this kind stuff you'll love it, otherwise avoid
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Imagine Enhancer

The dise affers a wenderful collection of forces criticisus biocatiops, and blooks for images of benefit as forces affect and process of considerations of conduced with fivespeer. The dises holds roughly 100 new stributes, 25 forces of Dirange bedictings, paint felliction images and 12 wholes The hair fruich, comprised to storie of the CDs wellable but the dotal in the objects, the quality of the attitudes and the defination of the loter hissels or vicin have considered to the control of the control of the control of the control of the German (patitudes) of convert. Silicer Wolken, etc erent exactly helpfull but two that but Double of Egipm out wheth they stend for

If you use integers this disc is definitely worth having If however, you work with a variety of randomy programs Light/Aver and ReaSQL, for instance) then the Amiles 3D Raytracing volumes tree-event in the March install or the 3D Areane disc (see opposite page) ore probably better bets as the offer objects, textures and files for the other Amiles rendering applications in addition to install or the second programs.

Gordon Harwood, New Street, Alfreton, Derbyshire DESS 78P. Tel: 01773 836781. Price: £49.95. / U

Q7.

tta CDs

Another month has crept up on us and sure enough another batch of CDs arrive in the CU Amiga offices.



Art Backgrounds Collection A

One of the grablems with many CD clipant collections is that the authors cram the disc with loads of images, and in the nea to fill the disc grab images from enywhere, often secrifice quality for quantity. Sensus users, however, want quality, not quantity a better agreement would be to cut the number of images, ensuring each one is well scanned, supplied at decent revenition.

Held of Mean have taken just this approach with their Art Backgrounds date, contains said Bill pictures all of which an vary visible produced. The images supplied are manify colour tones, stressplenc effects and wastles Each image is supplied in a vener to Presolutions (from 128 by 192 to 2048 by 3072) so you won't need to rease them losing qualify in the process) too much The orth youwrist to the duce is that the emage are in ProtoCo forms to you'll need to sorreiting like PhotoGenest to use them if you're looking for a collection of professional, high quality, starts, thexidings get like the proton of the collection of professional, high quality, starts, thexidings get and the proton of the collection of professional plant quality.

this disc Field of Vielon, 45 Beversbrook Road, London N19 4QQ. Tel: 0171 263 5054. Price: £40. Y1*

AWIE.



CD Clipart

In recent months I've seen bucket loads of CDs claiming to offer professional clipert for DTP users but in reality offer nothing more then a rather crap collection of black and white, low resolution, pictures

crap collection of black and white, low resolution, pictures On loading this disc however! I were pleasantly surprised. This disc contens bitmap images, structured images and EPS files. The structured clip art is in the form of ProClips for ProDiaw, handly for this month's coverdisk. There's also a collection of CarelDraw mages (not very useful for an

Arrisgo owner;
The real surprise, however, is the bitmap images, As usual there's a collection of black and white pictures but there's also a large number of Amiga painted colour graphics. This are all impressive quality, looking much like the painted images to be found in old style encyclopedias.

For DTP orientated users the Werrd Science Clipart disc is well worth having

Weird Science, 1 Rowlendeon Close, Leicester LE4 23E. Tel: 0116 234 0682. Price: £9.99.

85



3D Arena

Almathera have been doing CD discs for a while now, ranging from Aminet collections to professional clip artidiscs. Their istest CD is yet another collection of objects for 3D rendering packages.

3D Arens provides a collection of objects and textures for Light Wave, Imagine, and Real3D. There are also files for 3DStudio and DXF if you happen to have access to these PC based rendering ordersms.

happen to have accase to these PC based rendering programs.

The objects are of impressive quality, and certainly up to the mark we've come to expect of Almathera products recently.

The textures are also vary tasty, although I'd like to have seen some more innovative textures, marble, wood, stone site are a bit common these days.

We'd probably buy this disk because it's got some useful objects on it, elthough, in our opinion, there could have been a greater variety and choice of textures.

Almethers, Southerton House, Boundary Business Court, 92-94 Church Road, Mitchem, Surrey, CR4 3TD Tel: 0181 667 0040. Price: £24.95. AMIGA

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Which is the best peint peckage when it comes to drawing pictures on a blank page? CU Amiga Magazine goes on a mission to find out.



four leading paint packages, Photogenics, Deluxa Paint, Personal Paint end Balliance looked at them from the point of view of an artist who wants to paint a picture with nothing more than the mouse, the Amiga, and the software No fency scanning tools, no ray-traced texture mapped backdrops, and no composition of digitised video images

Tools of the trade All four packages are based around a

set of basic drawing tools. We start our test with a comparison of the mein tools available to the artist

FTX

Curves hotogenics doesn't have any curve drawing toels. Curves must therefore be drawn by hand. In certain situations it's possible to use the ellipse and clicle functions, discarding the unwanted parts to leave a curve, although this is usually more trouble than it's worth Brilliance and Personal Paint both have options for normal curves and bezier curves Beziel curves are drawn using four points

mail three-point curves Undo features

through any angle Deliare Paint settles for nor-The undo function is essential for correcting mistakes Photogenics uses a strange kind of

instead of three, allowing lines to be bent

undo system. Permanent changes to e picture aren't made until you click on the

Fix button. This allows you to draw for a few minutes (or as long as you like), and then if you're not happy with it, you can delete the whole of the last few minute's work by clicking Undo. You cen't undo any changes until they've been fixed. Depending on how you like to work, this can be either a pain in the back-

The best solution is egain offered by Bnikance and Personal Peint. They both offer multi level undo/redo. On both progrems you can set the number of levels and amount of memory evailable for the undo. If you have enough memory these undos can take you back for miles. Once you've used them you'll never want to use anything else

Delivre Paint is guite besic on this front. It will undo the lest operation only, which can be very limiting. If you are drawing with the iconbeis turned off, and then turn them back on to eccess the Undo button, that key gress gounts as the last operation, so the Undo does nothing. The way around this is to use the U key to undo when the toon bei Is hidden

Filling areas

side, or quite hendy

The ability to fill an erea with a colour, an image of a pattern is essential for any paint program Protoganics' best aspect when it nes to filling is the variable tolerance level This allows you to fill all pixels of a similar colou), rather than only those of exactly the same colour Otherwise, filling an area of a 24bit picture would be impossible. However,

that's the only fill you get with the fill options Bnllance is very good at filling ereas with brushes. It can stretch a brush to fit the size end dimensions of any shape. Its gradient fills ere quite good too

Personal Paint has the most useful gradient fill evallable Its Shape gredlent was used to produce the seats in the picture of the on and took me about two minutes. The gradients elso have the smoothest dithers of any 256. colour package (Brilliance's dithers are pretty much its equal). However, these are Personal Peint's only edventages when it comes to fi It has no circular fill, no engled linear fill and

no decent brush fills Palettes

Palette and colour renge selection is enother important factor in order to set up a decent gredient from one colour to another you need

The contenders **PHOTOGENICS 1.1**

PHOTOGENICS 1.1
The new boy of Amige graphics,
Photogenics is a 24-bit paint and
image processing system, Looke like a
hot contender with its many simuletions of netural drawing mediums

BRILLIANCE 2

The favourite of many Amiga artists, developed as a direct rivel to DPaint



- beginned for its sweat and post ()



Speed and epecial affects are Brilliance's strong points.

PERSONAL PAINT 6.1 Personel Paint hee found meey fans thanks to its speed and flexibility.

DELUXE PAINT IV AGA

It's long been the favourite for most Amiga pointers, but has recently lost ground to increasingly sephisticated competition. *DFaint 5* may reverse this

acka





to define the colours, and set them up as

Photogenics uses the whole 24-bit paletta at all times, so there's no need to define a sub palotte' However, it has one glowing feature, its long list of predefined colours such as apricot, midnight blue and

Brilliance has e nico simple palette, and the filinge solector is OK

Personal Paint lacks some of the range functions but it has a few thocks up its sleave Foremost is the fect that it shows RGB and HSV functions at the same time. It also has better colour spread options, palette marging and colour reduction

DPaint used to heve a really easy range selector (pnor to Version 4) which only needed start and and points to be picked. Now you have to pick up each colour and place it on a ine, which is limited to 84 colours. The palette is simple enough though

image processing

Image processing is the use of special effects to siter parts of a picture - affects such as bluring, sharpaning and falsa colouring Image processing has been used extensively to produce all kinds of effects. The woman's (age and hair (above) went through several darkening processes to produce the heavy shadow effect. The bees were bluried to produce a bettor motion effect. The road behind the windscreen was darkened to account for the effect of the glass Photogonics is primenly an image proces-

sor, so it scores pretty well here it has a mass of processes available, which can be used as the paint mode If you decide you don't like the effect you just used, you can change it to another before it's actually 'fixed' onto the image



A. Personal Point above off nome of its many sunge processing agrees. It can wran tern images late Mages Lyo pactors.

Bnillance has some image processing. though it's strictly limited. All of its processes are set and cannot be adjusted or fine tuned This is definitely a major downside

Personal Paint scores best out of the traditional paint packages It is the original crossbreed it has image processing features to write home about it can do anything from linting to producing a stered image random dot 'magic eye' picture. All of the processing can be adjusted to your heart's delight. They work well and you will certainly use them extensively There are some annoying exceptions like enti-alies, pixelise and texturing, but it makes up to: this by letting you edit the functions of even create your own from scretch

Deluxe Paint dies in this section. It has hardly any image processing features. Tint, anti-alias and transparency ere the only notable ones. All of them are really basic

User interface



Ease of use is just as important as advanced features, especially when it comes to keeping the creative uices flowing proposes almost certainly has the best

front and. Everything is in windows including the acture being worked on. This means you can drag things out of your way easily It also has lots of really neat features, like the screen selector which holds a small campo of all that pictures currently loaded. Move a cameo to the second box end you can rub bits of it through onto your main image or use it as a texture. It does still have a fair amount locked away in the null down menus, which is e pity as this is the only use it makes of the right hand mouse button

Bollwace has a user interface that's boan designed from the ground up. Initially the program is a major pain to convert to After a



A. Phytoposics works in a system of sewipou, which allows to to completely continues the look of the versors control panels

while you get kind of used to it and although I doubt I'll aver love it, it does have its advantages. Chief emongst those is that there are no pull down menus. This makes nevigating the program so much easier it also has a little box which constantly tells you what you are pointing at Neat The biggest pain for me was the way the manus obscure the screen

until you switch them off Personal Paint has a similar front and to Delizio Piunt Almost. The major differanco is that Personal Paint works the way Deluxe Paint should. The whole thing feels responsive, the manus are all clear and everything happens quickly. The windows can be diagoed around the screen so that you can see what they are affecting it is modern whilst still being traditional. Anyone familiar with Daluxe Paint will pick it up instantly and after a few days be completely hooked. Most of the keyboard short-cuts are the sema as Deluxe Paint too, accelerating conversion

By companson Deluxe Paint's user interface is old cranky and worn out. Fer too many options are hidden at deep level within some menu or other it s still not too fer behind most of the others though

Natural media

The latest fad in computer art programs is 'netural media'. The means airbonn. real airbrushes, chalk which leeves flaky bits on the paper and watercolouis

which saturate and almost run It also means having the screen behave

like canvas, paper, blackboard or enother real world surface. Photogenics is the only one to have these

simulated gen and paper types. They work best in high resolutions. If your pictures are going to be rendered in HAM-6 or HAM-8, the fringing can be more obvious in lower resolutions However, with a bit of practice, some realistic effects are possible

Deluxe Paint 5 promises some of these Our October 1994 cover disk demo version of DPaint 5 allows you to try these out. They use IFF brushes as toxture guides, to give the impression of painting onto various surfaces. It's a rather crude system, but can actually work guite well, and has the edvantage of allowing the user to creete his own, simple by saving out custom brushes into the relevant DPaint directory Narthar Brilliance noi Personal Paint offer these feetures

And so we have the results

Photogenics 1.1

Poducing the deswings in this feature with Photogeness would be tresty it differs from the other three packages in that it's not a 'what you see is what you get' program! If you went to be able to spacifically define each pixel in the picture, you'll have a here after of it, as you're always painting onto a representation of this actual 24-bit incture.

However, there is so much you can do with Photogenics that is impossible with the others. Top of the list are the simulations of different pens and brushes, which allow very subtle shedes to be added with little fuss.

Photogenics is best suited to the ertist who wants to output images to high i asolution 24-bit systems. If you went to design a title screen for your latest game or demonstration you'll probably be better off looking elsewhere.

Deluxe Peint 4.1 AGA

Everyone uses Deluxe Paint, don't they? In many ways, it's sterted felling behind the opposition, and the dalsyad release of Version 5 hasn't helped that Navertheless, it didn't get where it is today without being a damed fine program!

In its levour, it's the standard that all the others have had to live up to. While it does

get basten by the competition in quite a few areas, no one package can boest all of its features. Draint has always been a favounte for Amiga artists, and will continue to be for the foreseeable future.

Once Version 5 hits the shelves (it's due out any day now), it should consolidate its position A bit slow, a bit quirky, but still up there with the best

Personel Peint 6.1

Parsonal Paint has some of the best features of the lot. The user merface is remarkably free of clutter. The image processing is remarkably useful. The ability to add the image processing functions gives it even more flexibility. Its automatically scaled magnification is very handy. You drag a box over the area you went, and the magnification is calculated appropriately.

Colour reduction and polette merging prove to be incredibly useful too. Multiple brushes changed by a single key press are involubible it elso has a virtual memory function which seems impossible to live without once you have used it.

Personal Point may lack certain features from the others but makes up for it by being the best workhorse. It's especially good if you're upgrading from Deluze Phint.

Brilliance 2.0

The star of the computer piess, Balliance is somewhat different from the others. It comes

close to Personal Paint's usability but not quenclose enough for my liking. The manu system it uses is a big step in the right direction but in a long way from reaching its target. It just get in your ways little too often.

Otherwise this is the program to go for if you like plenty of features at your fingertips. Almost entything Deliver Paint cen do Brilliance can do better it has multiple brushes like Personal Paint, it also has the best brush handling its ablity to fill a shope with brush is

the bast I've ever seen
If you need an eart package but can only
efford one, Britlance should be it. It can do
almost anything. It's a long way from being as
ideal tool, but it has the best combination of
features and usability.

The bottom line

So which one of these well known point pecages comes out on top efter all this extensive testing? Can you stand the suspense? Well just for you here are the results at lest, in descending order we have.

- 1. Personal Paint 1.1
- 2. Brillianca 2
- 4. Photogenics 1.1



The Boluze Prior science is on the scenario from Bot an good so Personal Paint but still forctional.



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P) Scene

This month's public domain pizza haa an axtra thick topping of demos, muaic diaks and slidashows, on

a crispy deep

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the anchovies.

Witness

his is another game that promises plenty, Defender dressed up with digitised pictures of the planets, which form the game's things about the original Defender were its

speed, the ship's unquencheble laser gun the balliant sound effects and the deredevil flight manoeuvres Witness doesn't capture any of that particularly well. Fast unpredictable or intelligent eliens ere out, in layour of slow moving blobs that have to be shot umpteen times to be destroyed by



LIBANIUS

your sluggish ship. How about a Available from: Saddle Tremps PD, 1 Lower Mill Close, Goldthorps, South Yorkehire S63 9BY. Tel: 01709 888127. Diek no. CLG 89. Price £3.95 Including P+P

Club Mix IV music demo

Featuring substantial samples from Jam and Spoon Elevator and N-Trance among the beats Derek Heasley's Club Mix IV has plenty of potential. The seven minute mix chops from one true to the next e bit too impatiently for my liking, sounding more like a TV advert for a dance compile the line at Cotton Eye Joe same ples Please! On well, if you his e bit of pounding Euro techno and you can stand the Redness

game

Cyberdrold has the meking
of sensething special, with its
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Hopefully Dead

All of the effects are viewed through a helf-screen window in this bief demo from Oxyron. Most of the graphics are pretty chunky but impressive ell the same, such as the wormhole, the fire, the texture mapped vectors and the voxel landscape | m told it needs 6Mb of RAM. to run, but I suspect it might work with the standard 2Mb and a bit of Fast RAM

Aveilable from: Fraestyle PD, 108 Woodeide Wey, Short Heetk, Willenhell West Midlanda WV12 SNH. Price: £1 50 including P+P.





Double Shuffle

GAITIO

Puzzle games with squeres - doe't you just love 'em? I

sen't usually, but this ose's OK. You're preseted with se

ernegement of immobile squeres and a smell number of

noveble counters.

The object of the game is to move the counters leto the positions indicated is the less at the bottom of the cerese. You cas slide the counters up, down, left used fight, but they only stop when they hit se immobile square, so you have to piece your moves carefully. A seat

s carefully. A ceat puzzle geme. Aveilable from: Fraestyle PD, 108 Woodside Way, Short Heeth, Willeshell, West Midleede WV12 SNH. Price: £1.30 lecludleg P+P.

M*A*S

Poker Mania



Cross a frait machina with a game of cards, and you'd and up with somating like Paker Mana. You don't play against a computanced opponent instead you win money ecourding to the amount; you but and the oods for the head you and up with To keep it from acting boring, you also get borins games such as "higher or Lower" or "Find the Ace" Bright graphics and good sound effects make at the antertaining diversion. Worth checking:

out for a bit of fun Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willeshell, West

R7





Songs Rack music disk

Nine tracks of chugging technolora on offer here, wall produced with clean samples and neat arrangements innovation is in short supply, but if you like a bit of melody with your blaeps, then these should do just fine

Aveileble from: Freestyle PD, 108 Woodside Wey, Short Heeth,

Willeshell, West Midlesds WV12 SNH. Price: £1.50 iscluding P+P.



M*A*S*H

Speaking this game has been in directly ment for two views, no related of college is Women clone, it seems the opposition is true. Women clone, it seems the opposition is true. Women clone, it seems the opposition is true. Women if it is also a but like Lammings, but metach of alsowing the title outners, you've got to blow them up! You start of one end of the mile, with the centre, you've got to blow them up! You start of one end of the unit, with the present of the present it is to annihilate the enterny base with a but regard of measurement after of the present of the

You have the combined forces of your own potato army, plus a few tanks. There's plently of violence, but who cen condern a game that votimises potatoas? This is the shareware varsion. The full version can be obtained for \$7. There's \$150 a swinty patterned freak-tastic kalendoscope sequence.

Aveilable from: Chris Gregue, Sheef O' Wheet, Dueboyes, Co. Meeth, Ireland, Price: £1



Anhalonium Lewini

demo

CHESTION TRIS sever quite gate into top gear, although a twastas to on e sumber of deceases. There are some particles of the control of the c

Tel: 0924 3869B2. Price: £1 plus 50p





losaic

GA slideshow

Graphics junhies can get their teeth into the 15 top quality pics on this disk. Most ere in a cartoon style, with plenty of colour end lets of nice amouth 256 colour shading. Available from:

Freantyla PD, 108 Woodside Way, Short Haeth, Willenhall, West Midlands WV12 including P+P



Infection games disk

ally I hate puzzle gamus with squares the month i've tipmey recommended one. Double Shuffle, and here are three on Infection is a bit like draughts, except four people play at once, and the object is to cent squares Toobz was reviewed in PD Scene not so long ago, and Confuzion is a cross between Pipe Mania and a sliding Available from: 17 Bit Software, 1st

Floor Offices, 2/8 Market Street, Wakeheld, viest forkshire Wr. Lon. los 0924 366982. Price: £1 plus 50p P+P.





Istanbul Style slideshow

Not quite as professional looking as Mosaic, but a good selection of artwork all the same Istanbul Style is made up of 14 fantasy scenes, most of which include throbbing berbanans, with the odd sword bearing wench thrown in for good meesure. Trolls and mon-

sters also get a look in Aveilable from: Fraastyla PD, 108 Woodsida Way, Short Heeth, Willenhall, Wast Midleade WV12 5NH. Price: £1.50 Including P+P.



ZXAM 1.6

pectrum emulator he latest version of this ZX peatrum amulator comes in v

Spectrum almulator comes in versions for AGA and non-AGA Amigea (Kickstart 2 and above). Both var-elons need a 58020 or higher proces-sor. A 88030 is recommended to keep

We received two varietiens of this dlah which include different gemes. The dish from 17 Bit Softwers comes with the following: Olife and Lise,





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20 Utilities

They're calling it the greetest piece of licenseware ever. Find out what it is in this month's selection of PD

GRAC adventure creator

GRAC is the Amiga's first true graphic edventure creator. No bonng reams of text. No. repetitive strain insury from too much typing No dull still backgrounds. This program is designed to make point and click adventures, like Mankey Island, Simon tha Sprower and Beneath a Steel Sky

There's no real limit on the number of icoms you can have. You can speak to hoerds of characters. Music and sound elfects are reasonably well catered for and it can use various fonts. The design and functions of the control panel are left up to you

Best of all, GRAC has its own scripting language. This allows you to have control over the game. It means you can play an enimetion when two objects are placed



cinetic week or House a Steel Say with GAN



heve a cut scene like in a film, with the action switching to a different Incation Or meybe you could have

togathai, pi

some object come crashing down when the character welks over a perboular spot

However, there are limitations. Thata's no AGA suppart, which is OK if you want to save disk space, but not so good if you want stunning graphics. There's no sonte scaling, so characters won't shrink as they walk into the distance, and multiple playar characters, such as the gang in Maniac Mansion, would be impossible Cherecter animation is also rather basic, which can limit the cemera angles for your scenes

The whole thing is admirably rounded off by Lethal Formule It's an example game on the second disk Whilst it's not quite Indiana Jones, it is considerably better than some of the old Sierra adventures. It doesn't have too many locations but manages to do vary well considering that it fits on a single disk

You do need to have a little programming experience to use GRAC it wouldn't be half as good if you didn't. It will take you a little while to get to gnps with it but then all the best programs do. Every edventure fan should have this, it won't turn you into the next LucasArts, but it will give you just about evarything you need to get damned close. To the best of my knowledge this is the first program of its kind on any computor GRAC is easily the best licensewara title ever

Available from: F1 Licensewars, 31 Wellington Road, Exeter, Devon EX2 9DU. Tel: 0392 493580

Price: £4.99 including P+P

Guitar Companion musical aid

Utilities.

ha main program in this enes of five is an old avounts of mine, Guitar hord Directory, which has l'a designed to teach guiter holds. It's really simple to se Pull down a menu, elect a chord, and up pop hord Neat

The number of chords has been increased to 276 with 1.008 costions. That robably makes it the most any format. Good news or USA users is that the program is now NTSC comaubla it still shows the fin-



genng too. Not a major update, but worthwhile all the same

There's a compenion program too. Bar Chord Index shows all of the power There as simple tuner - a good idea, wall implemented but the samples are a

at rough. Then there's Song Book a simple program detailing 22 songs by their hords Eastly there is Music2Tab. Pump in some standard music and out comes The only things missing from this compilation are vertical chord diagrams and a

ast Fret style program. This set of programs is essential for any guitarist. When sed in conjunction with Fast Frat (CLR Licenseware) they make for a killer learnna environment

Available from: PD Drome, Tel: 0191 584 0917 Price: £5.25 including P+P.

Gas Trick bill calculator

Hem's a nice simple one, one from smelt program designed to calculate your gas bill, it's writ-ten in Amos, designed

to be melly easy to use. So fer so good. Gas Trick lets you save your workings and

ever your workings end lead them are all lead them are all lead them are all lead of the are all leads of the are

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A Sonnaffüß 3 lever On 'Little Blas Plantic Sinh' The union

Ber Clock is a smell progr date on the Workbanch 1 bar Last Alert 2 is a book programmers it gives you information on any softwi failures without you hav ZModem accelerator It's meant to increase moder transfer rates, but in practice I didn't find any rea

ference Keys Planse is a neal little on-screen keyboard which shows you Rawkey values There are also three real goodies. Installar v1.24. Commodore s

instells software. It will tell you what program files are missing if a program doesn't work. Lastly there is MFormat 1.2. It's a replacement for the standard Workbench disk formatting program. It does useful things like automatically installing the disk. It can't really replace formet as it doesn't have a CLI option and won't format PC disks from scratch. Still good II you format lots of Amiga.

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Miss Briss 80

Music 104 music utilities

An unusual disk this one. It con't quite decide what it is it's trying to be useful to everyone. The featured program is Composer, an easy way of putting music onto a stave. It can even play the result Unfortunately, none of its support lifes are included on this disk which is bad news as the program just refuses to work properly

Hunter III is a music ripper. It looks through memory for sound samples or SoundTracker modules, which can then be saved out to disk - useful for borrowing tunes and effects from games and demos. Also included in SuperPlay a standard SoundTracker module player

Inlay Maker is designed to print out inlays for your cassette colhome about Last is DSound, which plays sound samples from RAM or direct from a herd drive



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workshop

DIRECTORY OPUS 98

How to make Directory Cous 4, our February 1995 coverdisk, even smarter by getting it to automatically load files into applications

PROCALC 100 • Spread-maister Andy Leaning shows how ProCald's con-

be combined to solve difficult spreadsheet problems

BUYERS GUIDE 101 (It sell a question of credit in this month's Buyers Guide. Our resident shopping expert

gets the credit for writing this month's column, while you can get credit by reading it

GRAPHICS MASTERCLASS 102 (rets of mixing pictures together using the powerful

MODELER 3D 105 •

In the last of the Modeler 3D coverdisk tutorials, handy trps for 3D object creation ere included along with the remaining many functions

SUBSCRIPTIONS 106 •

Don't miss out on the amazing coverdaks and special offers we've got lined up, turn to page 106 now

VIDEO IDEAS 108

On yer bike! Tony Horgen checks out the wonderful world of colour cycling. Round end round we go

> BACK ISSUES 110 . Missed a great issue? Here's your chance to catch up!

FAQ 119 (John Kennedy answers many of the most common questions surrounding the fascinating world of the Internet, moderns and comms

SOUNDLAB 122

Tony Horgen pushes Amiga hardwere to the limits as he reveals how to make your Arriga sound like it has much more than four channels

Q+A 116 The questions and enswers crowlers ready to enswer your most challenging

Q&A MASTERCLASS 120

Less is definitely more as Mr Kennedy finds out when he delives into the right such that is compression software.

BACKCHAT 124

globe voice their opinions, views, hopes and tears

POINTS OF VIEW128

What's thus? Mr Internet himself alogging off bulletin boards? Smaly not? Quick, runk to page 128 to find out more.



Over the coming months you should notica several new columns appeering along with should see e Ids of processing,

THE RESERVE THE

P.

to us at ths

usual address.

Directory Opus



In this month's tutorial learn how to teach Directory Opus to act intelligently, automaticelly loading filas into their relevant applications.

ast month we showed you how to set up buttons to lead your most commonly used programs. However, there's an even quicker way of leading those programs, which doesn't involve creating new buttons, which doesn't involve creating new buttons (lead specific applications by clicking on filles).

For example, you could tell DOpus to automatically decompress any files with a DMS exampsion.

Alternetively you could have DOpus load your word processor whenever you clicked on files ending with a WP extension The files would then be automatically loaded into the relevent application.

the relevent application.

DMS decompression

DIM'S decompression

As an example lar's set up Dojus to decompress DMS files in this way DMS is the compression program used for our cover disk
programs You'll find it in the C directory of

rough of our acent 'technical' cover disks, it's

no problem if you normally use a different

compression system, as this axample

compression system, as this axample

compression adapted to work with

alternative progrems

DOpus doesn't eutomatically understand
the concept of a DMS file so we need to tall it.

what to do in this case we need to create a new his type, so select file Type from the Configure meu and click on New The requester that appears lats you chose the type of operation that the new file type will carry out. In this case it's an Ampathes style com-

mand so aikt on Anigablos Piopain. From the rest subsets cick on the bit of the right labelled Edit Class; We another requester porps in the medide of the one you'll see a line called File Class and next to enther field selder Class in Ohmper the sent that is not to DMS Compressions and the properties of the first one to DMS Compressions and the contract of the c

*.dx

On the same line as this instruction you'll see magnifying glass. Click on this and in the new requester that appears click on the line that reads MatchName and finally press Return

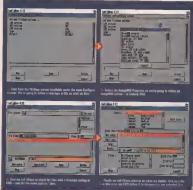
File types What you we just done is set up DOpus to

watch out for files of a certain type. In this case it's now looking for filenames that end with the extension of DMS. The operations we're about to set up will only be carmed on these files. This ellows us to perform salected operations on specific types of the and we can check for files in a wide variety of ways.

in this case the "" dms Iline you typed was a file name pattern. You could type any AmgaDos wild card pattern here. The MatchNeme reference tells the program is take this pattern and compare it with the selected file names.

You'll have noticed other types of comson in the requester that appears when yeaclick on the magneying glass. From here can tell the program to watch for files of on a specific date, time, or that have comments and so on

Now you can click on OK. Next you can define the operations that are carned out what actions the user needs to do to them in our case we want to invoke the



program when a DMS file is double clicked In the box next to the word Events . click on the line that reads Action Double-Click in the field below this box labelled Event Description, type in something to the effect of 'UnDMS files to DFO. This text is just for your own notes, so it doesn't really make any

difference to the actual operation We've now lold Directory Opus that when over you double click on a file it should check to see if the life name has DMS at the and of it. If it does it can perform an operation

We're now going to specify Click on the New button on the left-hend side, half way down the screen. A cursor will now appear in a text held just below this Type In

dms write (f)

Don't press Return just yet Insteed click on The button to the left of this field, changing The operation type to AmigeDos (just like we did in last month's butonal). Now in the box next to the word Flegs move the scroll bar down and click ou the line Output Window You can finally press Return and click on the

All being well you should now see the clicking on the New button. This time however you'll see a new line added showing the

new DMS file type ton that appears. You'll now be back in the

Try it out

Cross your fingers, because it's now time to try it out for yourself. Insert a recent CU Amiga Magazine cover disk into e drive and copy a file with the DMS extension from the cover disk to the RAM disk. To do this move the mouse pointer over the left hand window

Move the mouse pointer down to the buttons in the bottom left-hand corner and click on the one labelled DF0 Now move the mouse over to the right-hand window and aliak once, and then click on the button

ALL WAS DUET AT CU MISSIS OFFICE, EXCEPT A COLD WATTER COMPLETELY ENGLISHED LIBA WAS, AS ALWATS, BE MAYISMS COPY. A Nitk 40pen and 4815 installed you have easy necess in a world of Of Serge cores disks - like Considents from the James y lower

called RAM. In the left-hand window you'll see several files, one of which has the letters DMS at the end of it. Click once on this file. below labelled Copy

Now remove that disk and insert one you don't mind overwriting - making sura it's write enabled lirst. After e few minutes you'll see the DMS file appear in the right-hand window Move the mouse pointer over the file and double click on it. A window will eppeer and up which decompresses the life to the floppy disk. This may take a while on some Amigas type to DOpus. If we wanted to we could have set up a button

to do the seme thing using the exemples from last month. Why not have a go? In this case you'd click once on a file end then on the button. The result

would be the same, but double clicking on the file is simpler. Once you've understood what s going on, heve a look at the other file types that come supplied with Directory Opus and see what else is possible. The beet way to get to grips with software is to experiment. There's very little you can do to parmenently damage your Amiga using software.

but just be careful when you re deleting files. Next month we'll explore some of the

meus function configuratione

Andy Leaning

Directory Opus 5

Diffectiony Opies 5
This hutorial covers Birectory Opies
4, the world's best Ansign utility. This
was given swey an the February '09
Isaus of CU Amigo Megazine. To
order Yessen is 6 #00pies, which
floths like being one of the best
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Development on 61322 227008. It
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4 When checking a tile Bilgree compares it to a sourch pattern of a hose provincely given then one owner of the trace of search patterns it can be affe.

ProCalc Tutorial



Thinking ebout buying a peripheral and want to work out who offers the bast interest retes? It's easy with ProCelc - wa show you how.

his month we show you how to build a hendy little spreadsheet that ellows you to compere interest rates from various sources to find best rate of return

A typical example would be if you were to compare the interest letes offered by a bank, a hirs purchase compary and a credit card to find out which is best for you. Although it might seem obvious at first, deferred payment and deposits can make this 6 fairly complex process for the human train to handle. ProCate, however, easts such caudistions for the hardsay.

er, east super disciplinations for or leakness? The first step is set up or passeddhems with this time different payment turns (see figure) provided the set of the first payment turns (see figure) provided the set of the first payment (see figure) provided the set of the first payment (see figure) provided the provi

Note how percentages are entered as '.18' for 19%. You can set the display for currency and percentages using the numeric format option under the format manu.

Get to work

Notec how we only enter the emount, price and repryment period distance. We'll be spending this amount and paying it back over the same pend of time no metter where we go, so there's no point in creating it three times. Having entered this deta we can now yur? ProCale to work. In figure two we use the PMT function (es shown last month) to work out the

Keypad Problems

Several readers have experienced problems using the numeric heyped of the A1200 and A4000 with ProCelo - our November cover disk. It will work with the heyped which can be used for either cursor control or to enter numbers.

To use the Numloch hold down the Shift key and the Numloch key. As you do so you'll see a message eppear in the window title bar saying Numlock is turned or or off. For date entry, turn numlock on. For cursor movement turn it off. monthly repayments given tha data we already heve. Three PMT functions are used to calculate the repayments for the shop, bank and credit card. As the shops will often let us put down a deposit, the shop's PMT erguments differ from those of the other two, with the deposit being subtracted from the total amount to be spent first (see figure two).

Adding deposits We've now got all the information end in most cases it will be obvious which lender offers the

best terms. But if deposits come into pley it gets a bit more difficult. Let's put ProCalc to work end get it to work out the best deal Here we use an IF function (covered in earlier butonials). We need to test the three rates of

Here we use an in Function (covered in earlier studies). We need to test the three rates of return, to find out whether the shop, bonk or credit card company is the lowest. Thankfully using nested IFs, in one IF function inside enother, and string arguments this cen be done. The complate IF function reads:

'=IF((E13<A14),IF(A13<E15,"Shop","Credit Card"),IF(E14<E15,"Bank","Credit Card"))'

This exist if the shop offers a lower rate then the bank. If a other it compares what the shop is offening to the credit card and then ratums a string – Shop' or 'Credit Card' depending on which is the case if the first question returned falsa, then the bank offers a better rate so this is then compared to the credit card and the better of these two is now returned – "bank" or 'Credit card'.

If the IF words en put in quotes, this ensures that the words will be displayed in the cell. Figure there shows the results of this function. Try changing the percentages and the initial deposit All being well the cell containing the IF function will change to show which is the lowest interest rate changer.

And there you heve it Although not the most vital spreadsheet in the world this example does start to show some af the isal power of PACafic, using the program's powerful finencial functions to work out otherwise complex sume, and then using if a IF functions to leightly the best option for you. Figure fear shows the results when deposits come into play and works out what is best for you in that case.

Next month we'll be giving the world of high finence a break and exploring some of the program's other capabilities.



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A Figure three, here on if function finds not the test at loss soin

d See See Supplier | head



Figure from a depart can alter the calculations demonstrate

Buyers Guide

Pay as little as £11 a month

elk into any shop these days and you'll find hundreds of bright notices tempting you to part with your money One of the most favoured mechanisms that high street retailers use to lure you into spending

your readuss with them is credit To some people instant credit can seem like a dream come true It all sounds so simple You see something, a monitor for instance. you want to buy but your current funds won't allow it. Enter instant credit and you can have the riem. you want that second and pay the company back at nice affordable monthly installments. All you have to do is fill out a few forms - simple. Or is it? There is a catch. You must pay interest on the emount borrowed and unfortunately the

interest rate is generally feirly steep. You may thus end up paying Way over the odds for the item that you are buying. Far example, most interest

repayments are described as Typical APR 25 5%' This means

you pay 25 5% more than the price of the goods. Watch out for this The higher the percentage the more you pay in a quick survey of interest rates advertised in the high street and dealers the average interest rate hovered around thirty percent! If you are looking to buy via credit shop around and see what the various interest rates on offer are, the difference can be surprising

Is it worth it? But if you haven't got the cash readily available and want a new printer or monitor surely paying e little' extre is worth it After all

you won't notice the difference in the monthly payments and you get to use that shiny brand new Microvitac monitor end AGA screan modes now rather than in 18 months when you've finally saved up for it Wall yes, it can be But there

are other options. Why not take out a bank loss to pey for it? Bank Interest rates (whilst still being steep) are generally lower than

Buy now pay later might sound ideal but there are pros and cons to purchasing goods on credit. CU Amiga Magazine looks at both sides of the coin.

credit companies' rates. You may think that saving 10% over a veer is small change, but just consider that it could also buy you something extra for your Amiga - a 400dpi mouse or a RAM board,

for example Then of course there's your flexible friends. We've covered the advantages of buying on ciedit caids before so I won't dwell on this But one point to remember is that credit cards often offer the best of both worlds. Instant availability, average interest rates and protection if things go wrong

At the end of the day the choice is yours. There are certainly times when it's worth paying extra For example, if an end-ofline model is going for a song or if the bank refuses you a loan (gyan if you have a perfect credit history! But if for whatever reason. you do decide to buy on credit tread carefully - it's easy to take e wrong turning and and up in an uncontrollable debt situation

Interest free However not all credit deals are

nesty pitfalls weiting to drag you into the arms of the debt collector There is such a thing as interest free credit which means you can still borrow the money to buy the goods instantly and pay it back over a period of time, but you don't pay any extra for the privalege - thara's no interest - it's free!

This really is customer cere The shop is making it easy for you to purchase the goods without

any disadvantages. This is the best arrengement and is increasingly common amongst big ratallars. Another payment scheme

appearing is deleved credit, the buy now pay later' scenano. Here you pay a deposit, get the goods and only start paying for it at a later date. These are invanibly here purchasa airangements, where you pay more than original price This approach is very popular with larga household goods (freezers, HiFi etc) but is now starting to appear in the Amiga market

Just like hire purchase check the amount of interest that you will have to pay as well as the principle is the final amount payable. It may be tempting but is it really worth peying hundreds more? Could you get a better interest rate from your bank? This month's ProCalc (page 100! tutorial shows you how to calculate the interest payments end

find the best credit deal, Andy Leaning



Graphics Mas



One of the most powerful image processing ebilities of Photogenics Is Composition; with it you can blend two images together seemlessly. CU Amige Magazine explains the technique.

his month, a two in one tutonal, the rudiments of text monipu-

Photogeness and our first attampt at image processing. The simility to convert a digitased picture into something which looks like an eritst's sketch. If yon glance at the finished item now, you'll see just how close we can get using the most best of skills.

Unlike most other srt peckspes, text is created in its own image window in Photogenics. On the plus side, this means you can transform it in any way you like before committing it to your main plcture, the downside is that you have to go through a number of steps before you can actuelly. place your text where you'd like it.
For the first part of the tutoral
we're simply going to write our
text, and turn it into highlighted
gold lettering. On the way we 'tl
idem about masking, mode
effects end placement

Start Photogenics and from the pull down menu Images select Open as/Other, and choose the Text loeder The font we're using came with the software, so it will be listed in the directory of fonts (provided you installed it with the program). It's called Stepane and

wa want to use it at size 74
You must enter your text
before it's rendered, so type in
the words star profile, and OK
that. The text is now drawn into a
separate window, or briffer es it's

called As it stands now, you could copy this onto another image window, but we want to add some sharkle to the lettening, and to do that we need to make a mask (which is enother isome sterior)—something which pro-

tests certain areas of a poture). From the Propert menu, select clone and a copy of your test is created on screen. We will smooth the new image to give it more studied to Cheracteristics as, from the Image menu, select Bluricausana Bluri and choose e radius of feuu. Once it a complete del this lengthy tests, select the original test window, and make this things the companies of the control of the companies of the control of the control

Alpha box at the lower right of the screen in the Images toolber

Text effects

Now we begin work on our test. Select the burred image, and call up the Mode requester, click on Emboss, then on the Fill screen godget (the white tool above the word fix on the meen toolboat and watch as the words take on a resaid, solid look. Fix this effect now, es this saves the onscreen changes, and allows you to expenient to get the best

look for the text. Try the Artingue mode for a gentle glowing effect, or how sobont a Gordent Fill to ampulte gold, by using yellow as the pulette colour, To create a doppled, stone-like quality you could try the Addibus or Addivision modes, to try anything out, the Mode, then called not their screen soon if you're not hoppare the soon of the country of fill Screen and start fresh As with anything in













Wore, extranu close op Thre magnified we saws the text or the limit chosen pourtion.

sterclass

Photogenics, if you like an effect, you must 'Fix' it before going onto something alse or you will lose your changes Frequent saves ere also recommended because you'll find yourself developing ideas on the fly which you may want to change later Going back to a previously seved Imaga can ba a lite-saver.

Once you're happy with the text, save it. For the record, my text uses a yellow gradient till completed text image, as shown on the bottom displey bar, to the slot marked Secondary at the fair right. You gan delete the Alpha image now, as it's served its pur-

the text from being altered Next job is to load in an image onto which we can position the text. For this tutorial, open up the gul upp file which comes with the program It shows a rather refined woman, but of course you could load in any digitised image, for the time being though, stick with

To add our golden text to this new image, move your text image icon into the Secondary slot, and select the Image/Compose option; this brnos up a requester, and also superimposes the text onto the colour picture. Using the mouse you can position the text anywhere on screen, place it. directly at the top of the screen Note the handles on the corners of the text image box; these allow you to re-size the image honzon-

You'll notice that I retained the bleck beckground on the text, es e severe contrest to the image. But don't warry, it you're wonder ing how to simply place text on screen, we'll clear that problem up in a short while

Once the text is placed, OK Compose then 'Fix' the image and save it

Artwork

tally or vertically.

For this second part of the tutonal, we're going to simulate artwork using the powerful mode and diawing tools in Photogenics The first step in our art-forgery is to get rid of the image colours; we're aiming for a pencil/charcost rectangle tool, draw out a box starting below our text (which we want to leave intact) and including the remainder of the image. From the Modes menu, select Greyscele Once the Image is converted to monochrome 'Fix' the

changes and save it Now from the Mode menu. select LineArt, and drag out a similm filled rectangle to remove many of the in-between grays leaving us with an outline and e

touch of subtle shading 'Fix' the changes you've made when you're happy with tham, and add a shedow behind and to the left of the women's head by using the filled polygon diawing tool in AddDust mode Set the dust pount to a value of 12% to gat a nice, strong textured shadow. To set a Mode velue, click on the tool to the right of the

To add a 3D effect to the

image, you can Paint with a white coloured chelk/pastel brush (size 6, pressure 39%, Trensparency 38%) on the cheeks, forehead, chin and lips. Check out the illustrations to see what a difference this makes, bringing the 'dead' image to life.

'Fix' the changes and seve The final touch is the Mystery Gill text As I mentioned before, here's how to make the background of the text invisible use the Text loader, and using the Bodacious

font type your words. In the same way as we added tha Star Profile text, make the new text your Secondary image end Compose the new text onto our artwork, but this time ensure that the boxes next to Brightness key and Use Paint mode are ticked. That way just your text will be painted on to the image And once again, you can move and resize the text before you commit it type and sattings affect the way imagas are composed.

Peter Lee



s have treated Souns which may











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lodeler 3D

The conclusion to our Modeler 3D tutorial looks at the remaining menu options and dishes out some tips for serious modellers.

ollowing on from last month's look at some of the Modify menu commends, we conclude the senes by concentrating on the remaining options from the Modify menu, elong with some general tips for 3D modelling We're jumping streight in where we left off last month so it might be a good idea to have a quick scen of part one of this tutorial befare you get into this one

Merging points

LOUP LOUP

The Merge Points function is used for reducing the number of points in an object. This has the combined advantages of speeding things up and seving memory It looks et every goint in the object and comperes it to every other point. If two or more points total object size they era replaced by a single point. This distance can be altared with the

Merging points can be quite time consuming with large objects, so you get a progress ber to let you know how long you re

going to have to wart The next option, Quantize, is useful for creating odd symmetrical shepes. This moves every

point to the nearest grid intersectron. In the screen shots shown below I used it with a globe to create a ndged satellite type shape. Use the Grid menu option to change the grid size

The Array command creates duplicate copies of selected points and polygons it can create as many copies as you require and affects each copy by a fixed amount that you can specify need to use the Autoscale option to resize the objects so they can ell be seen on screen at once, es

That's it for the tutorial If you've got a 3D rendering program, LightWave or Imagine for instance, you can have a lot of fun with Modeler 3D Whilst it lecks the power of the dedicated modelling tools built in to these applications, in some instances its simplicity makes it faster to use. If you don't have one of those programs, then we hope this has given you same insight into the wonderful world of 3D modelling.

a shortcut press the A key

Using VideoScape 3D In November 1992, CU Amon Magazine cover-mounted the nifty

TRICKS AND TIPS

To finish off the series bem are a few tips and tricks we

picked up whilst using Modeler 3D.

The key element to creating realistic 3D objects with Modeler is understanding the program's many tools, and as usual, experimentation will bring mwards. Play around with it and learn what the verious functions do.

Once you've got an understanding of the progrem you can then start thinking about constructing complex shapes. Look eround you at everyday objects end try to imegine them not as one complee image, but as a collection of lots of smeller shapes. How would they all fit together?

Other tips include heeping the number of polygona to a minimum whenever possible. Try to get into the hebit of using lerge polygons (this saves processing time), and use Merge Points whenever you've used Quentize or enother function that's likely to result in overlapping points. When you do use Merge Points, try to select as area first - it will save you lots of waiting time.

To save time when bullding up objects, seve common objects and build up a libmry. When you've established a mesonable library you'll be amazed at how guickly you can hnoch up new shapes. If you went to move a polet, first select it. Now hold down the Shift key end click where you west it to be moved to - for Individual points it's guicker then the Move Points tool.

progrem VideoScape 3D If you've got this you'll be chuffed to learn that VideoScape 3D is the companion program to Modeler 3D. You can load and enimete your Modeler 3D creations in Video Scape To do so save your objects

as Binary (le click on Save As -> Binery) Now load Video Scape 3D and load your binary Modeler 3D file. Following normal VideoScape procedures you'll be able to move it around and animete it. Andy Leaning



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Video Ideas

Colour Cycled Effects
Liven up those dreb videos and grephics

with some rether excellent colour cycling effects.

Tracers

It's say to create a motion-blur effect with coloar cyclieg. For this axample, set e a range of 3 Goloure, so that the first 10 coloars are black (essuming that yos else have a black hechgrossed) and the following six colourer sads from black, through gray, to white. Turn on colour cycled drawing mode and select the first coloar in the range set the pen colour.

Using a small brush and either costinence or dotted drawing mode, have a guick doodle on the acrees. The lines you draw will be invisible in places, but thes fede bach into view for a short length, before disoppearing again. This is because 80% of the line is drawn in black let on a black bechaprosed, while the rest is drawn in white and

skedes of grey.

Now press the tab key to start the colone cycling. You'll see the white 'head' over lies breing erosed the screen, with a grey bir following is its webs. This case be used to simulate sith, fertiles or reported by the start of the start of



a. The lettle was were drawn by dropging an anim break across the servan uning coins; epitod gaining Onto miles

ant programs such es DPant, Personal Plant and Sindance allow you to define a regio of colours within the patient. These colours can then be royeled ; so that sach colour in the region of the object of the colour owing to the first position as mage. When colour cycling mode as two on, these parts of the picture drewn with these colours appears for the colour cycling mode as two of, these parts of the colour owner. The effects with the colour cycling mode as the sa a run down of the offices parallelism.

Fairground Lights

If by any chaece you won't to create a fairgrowed style action board effect, complete with fleshing lights ther no enound the border with fleshing lights there is exceeded the commade seed exclused brush. This bresh will be the template for your light bulbs, so easile it econolispy. Seeder cycled develop mode, and the screes. The gridlock will beep them all was provided to the complete of the comsequence of the comsequence of the complete of the comsequence of the comtended to the comtend



A hiteronacela flankon lights are usury to free and sommitte with a rantonpolacie. Bit the lab key in stort the colours cycking around the agram.

Come to the CIRCUS!

Time Tunnels

This hee got to be the most instantly gratifying use of colour cycling. You'll need Deluxe Peint's symmetry functions to get the most ost of it, elthough eimlier effecte can be done with other enfowers

Here's the plen. Set yournelf up with a renge that graduates emonthly between two or three coloum. Turn on colour cycled drawing and select dotted drawing from the icon ber. Pich e nice big round brush, by selecting e emell one, and dregging it out to about 2cms in dismeter. Clich on the symmetry icon from the tool ber using the right mouse button.



that draw readon patterns for leasest time turned effects. of your brush, which appear in a circular formation around the centre of the

somen. Click OK to get bach to the main screen. Now you can start drawing. It's best to move the mouse quite elowly, ee the computer has its worh cut out drawing 60 copies of the brush sech time you move. If you move toe fest, you won't get a very smooth graduation. It's best to heep the colour cycling off at this steps (not to be cenfused with cycled drawing mode, which should still be turned on) es it slows things down even mom. As you move the mouse in er out of the screen, the trails form a est of concentric circles. When you etert colour cycling (with the teb hey), the circles eppear to move in or est of the screen, depending on how you moved the mouse.

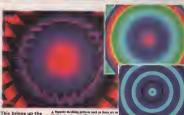
The other method is to use the filled circle drawing tool Click on this with the right mouse button to cell up the options. Click the 'cir' button, move the dither elider fo the left, clich the rendom tich box end then clich on OK. Move the pointer to the middle of

the ecreen, and pull out a circle that fills the somen.

Move buch to the centre and prace the left button. This will now draw a series of circles from the middle to the edge of the ecmen. Prese tob to see

them move. Experiment using different bruehee, coloum end symmetry settings. Also try turning the lighte off end playing some specey music for e nice end relexing experience.





A Hypostic shrabbing potterns work as those are alreads to do ped owns to bile with colour syclian.

evmmetry options. Choose either gyelle' or 'mirror' in this case. For a simple tunnel effect.

change the number In the 'order' box to

something high.

such se 60. This

gives you 60 clor

Weather Forecast

The TV weather forecast grephics ere getting a bit flesh these deve, but at a push, you can still do similar things with your Amige. Scenning a map or using one from clip ert collection should be no trouble. The clever bit is using

colour cycling to enimete your weether symbols Save your map in a screen mode that uses helf the emount of colours you have evallable. For example, if you can work in a maximum of 32 colours, save the map as a 16 colour image. This leaves the rest of the pointte free for you to drew the symbole. Some of these colours need to be cycled, so it's importent that they're not used for the mep graphice, otherwise the map will appear to glow in pieces.

Change the number of colours to meximum, and load the map back in, rateining the currently selected screen mode (don't change it to that of the map). On a apara ecreen, draw your symbols and use the 'tracers' effect as explained in the Tracare penal to draw min and snow felling from the cloude. Seve the symbols as a single ecreen. Now you can cut them out, jump over to the map screen, and pasts them on whem you like. Press the Teb hey to enimete the rain end enow. **Tony Horgen**



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The said everything I can say now if is up to you. If you apply my secrets I guarantee that they will bring you weath. If my secret all you we weathed is a few musice and a postage stems, But what if I am up(x? 30 days from now you can be juit another more often or you can be on you way to a center its. You decide

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pairs five years I pan certify that the above streaments are into and lectual and that he nell pa at worth a in ascess of one million pounds." - M. Thomas: Accountairs.



JANUARY 1995 ON THE DISKS:

- ComicSetter, HyperCacha, Flight of the Amezon Queen demo and clip art. Plus free
- ComicSetter manual.

 FEATURE: Create art for
- APRIL 1994 DN THE DISKS: Adoraga, Task Force, Mastar Virus Killar, King's Quast V1 and Dots,
- FEATURE: Turning Ideas nto money.
- INSIDE: Damomaniac, Imagina 2.9, Darkmara Naughty Dnes, King Quart V1, 5: and Si

OLD DISKS:

- DISKS:
 OctaMad 4, music samples, fonts and clip art,
 plus playable demos of
 Bump 'n' Burn, Bubble
 'n' Squeak (AGA only).
 FEATURE: CD-RO?
 the A1200
 INSID:
 - new of K240

impson's sequel to Diggarsi

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VidaoTrackar damo, sound samples, music tracks, plus playabla damos of Tactical Managar, Siarra Soccar, Stativ



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- DIN THE DISKS: Art School package, Craft 2 Turbo, plus a playabla level from Ishar 31 FEATURE: Muslo -easy guida to creating top turas. INSIDE: Plott 5, read-cocon Most.

mode



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ATHEK CONDINA MICKO.

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Hard drive problems, peripheral nightmares, software corruption ... there's no end to the technical queries covered here.



There's lots of genlook and VideoTracker my favourite



LEANING na i gat nawer the roCalc naulries - just

IDE information I have just not



myself a 4" Conner CFS420A 420MB IDE Hard disk drive It is actually meant lor an IBM PC but since it is an IDE standard driva, I assume

there should not be any major problems getting it to work with However, I need a cable to

connect it to my Amiga as the IDE interface on the A1200 and the drive are of different sizes, as you are probably aware.

Please show me how to make such a cable or where I can get ons from (in the UK) I know that the four pins on the right are for the power supply I have no probsupply for the unit but I am not sure how to connect the other 39 pins to the 44 pins on the A1200 motherboard Please please please help me I shall be lorever grataful if you could solve my cable problem

Incidentally, I have also just acquired a modern, is there any way I could E-mail you guys over there?

Eric Hoi, Melevsie

Turn to page 32 for the answer to your hard drive problems. You can Email us at: cuamaga@cis.compulink.co.uk with any views you may have.

CAD questions am studying

Autocad Release 12 part time at coilage and run it on the Amiga, and if so where I can purchase the above

program. I have asked some of the bio suppliers who advertise in your meg but they cannot help me What are the system require ments I would need to run the program and print hardcopy? have an A1200 with 130Mb hard drive Power 2nd drive, Commodora 1081 monitor and 120D ponter

If this program is not available for the Amiga could you tell me if thera is another program availsble which has the same functions and commands?

Roy Beer Lowestoft.

Autocad is not available for the Amiga, but there's road agus. The December 1994 issue of Cli Amina Mugazine came with a complete fully-functional version of X-CAD designer, plus a full manual. You can order a copy from our back issues department, on 0858 468888, X-CAD Designer runs on any Amiga with 1Mb of RAM or more.

Should I wait?

Lown on Amiga 1200 and have a < couple of questions, I would

1 Is there an MSX emulator for the Amiga?

2 I am thinking of buying a CD-ROM drave for my Amiga Should I buy the Zappo CD-ROM drive or wert for Commodore's CD1200? Would it be worth the wart?

1. There's no MSX emulator avail. able for the Amira. 2. Don't hold your breath for any official Commodore products. The CD1200 is unlikely to appear for some time, so take your pick from the Zappo and Power CD-ROM drives.



deoTracker want to thank



Peter van Campen and, oil course, all of you Manezine for

94 of your November 1994 issued I am using it on my unexpanded Arniga 1200 After watching the Copper Magnify 3 AGA exam-

ple video, I was completely amazed by this powerful routine. but I haven't managed to use it. with a brush other than the Composite brush on the tain format my brush must have am using DPaint IV AGA)? Or are there any width or height limits?

Christos Batzlos, Thesseloniki, Greece.

The brush needs to be in HAM-6 time mat, with a maximum height and width of 256 pixels by 256 pixels. As long as those requirements are met. there shouldn't be a problem,

Hawk RAIVI board



RAM board disable the PCM CIA slot?

Peter Rooney, Ireland.

It worked fine with PCMCIA peripherals in all of one texts.

Genlock heartbreak Lam writing fo



have an Arniga 1200 and I em becoming a bit concerned about the state of the Arrage peripherals market, in perboular geniocks. I was in the market for e genlock for my Amige to go with the rest of my video equipment so I went to my local

Amage dealer and esked what was on the market at the time I was told there was a new genlock out by Amitek This had been edverbsed in mosf Amiga magazines as 'Arnitek Professional Genlock' for all Amige computers, so I purchased my new genlock, wired it up as per fhe instructions powered my machine on and , and ,, nothing happened. I was faced with a blank screen. The power light was on buf nobody was home. I unplugged the cable from my extra drive, the genlock and my printer end fined again, still nothing. By this time I was looking for the insurance documents for the Amiga because I thought if had blown up I then realised that I had left the cable from the genlock still connected to the computer and phew, the Amige was still with me. I gresumed that at

least I had found the fault, e dodgy lead A couple of days letter (received a new lead. This did exactly the same as the first cable, so I asked my local deeler

418

6 for

a. As

to try the genlock on one of them computers It did exectly the sems on their A1200 and A500 The next dev I received enother

genlock, which we fesfed in the shop, but this too failed to run. By this time I was getting very annayed I was refunded my beer fokens and shot off to a camera shop that I noticed hed a secondhand Rocgen Plus for sale, only to be told that this would not work

was now beginning to wonder whether any genlack would work on the A1200 I ventured back to my local Amige dealer to pose this question to him he was unsure as this was the first time he had noticed the problem. He then offered to sell me his Rendale 8802 FMC because he was due to change his. This

works perfectly all right until you

put an externel video source to

shown on a screen? I have tried to print out graphs from ProCalc but can't use the drop-down menu for annting. Cen a keyboard. commend be used? Mrs Clarks, Wigan.

November issue. I missed the

January 1995 I checked out sev-

aral newsagents to try to obtain

way that the tutorial for ProCalc

there any way I can print what is

(Part two) can be obtained? Is

the December issue. In there any

December issue but bought

If you click on the Output function

the CVBS IN connector When this has been done the RF signal goes black and white but the genlock signal is still colour

Does any genlock work correctly on the A1200? Are the genlocks fested on all Amigas es it stated on the adverts? Do mage zines that test genlocks end other peripherals fest them on all Amigas?

Anthony York, Northampton.

Firstly we can assure you that CU Amiga Magazine thoroughly test the products that we review, although we can't comment on the testing procedures of other Amigo magozines. Depending on the type of product, everything reviewed goes through a battery of tests to check for performance, ease of use, value for money, and how they compare to competing products.

The Amitek genlock in question for instance was tested on several Amigas, and indeed failed on an A1200. On further investigation it was found that the genlock had n problem on the A1200 and the genlock manufacturer assured us that n revision had been made to the circuit board so, that models now shipped don't have this problem. A second unit tested showed no sign of the fault. This was all reported in the review on page 92 of the March issue. It's probable that you were unlucky and got two early models

The Rendale and Rocgen genlocks should also work on the A1200. Try calling Stlica on 0181 309 1111. They're the main soppliers of Amitak products and also have a technical support team who should be able to iron out your hardware problems.

buy this maga-

zine regularly and

was very pleased

when the ProCelc

appeared in the

spreadsheat

ProCalc

Since buying an Overdova Hard daye unit over a year age I have find an accelere-

tor card for my A1200 that will allow BMb or more first RAM to be added without disabling the PCMCIA slot I have written to a number of mapazines (including CU Amige) but to date no one has published my quenas Hardwere retailers have given me lofs of conflicting advice (even from different branches of the

same organisation) erator boards in the March 1995 edition you mentioned this problem so I was surposed to find your review of the Blizzard 1230-III In the same Issue felled to indicate whether this board was PCMCIA compatible | appreciefe that when reviewing hardware it is impossible to fest all herdware combinations for compatibility but In the case of the A1200 eccelerators popping something into the PCMCIA slot surely would not be

Now that there are PCMCIA interfeced hard drives, CD-ROMs, SCSI interfaces, samplers and offiers of the 4Mb memory limit/ compatibility problems of certain boards is a point of utmost

PRINTED CITY, FREISTERS, They, GART GAND, PRINTED New JANUAR A MARKET TO MAKE THE MARKET TO MAKE THE MARKET TO MAKE THE MAKE

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under the Project menn you'll be oble to print out your spreadsheets. For graphs go to the 'File' meau and select Output. You'll then be able to print them. You can order a copy of December CU Amiga from our back issues department, on 0858 468883,

Accelerated trouble

Importance when choosing a model. Would it be possible for CU Arniga to test A1200 accelerator boards for PCMCIA compatible rty in the future? I'm sure it would be useful Could anyone let me know of a compatible model?

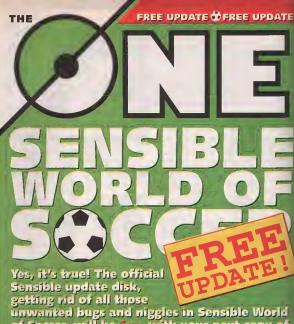
Paul Davis, Somerset.

The problem of PCMCIA card and accelerator incompatibility lies in the Amiga operating system using the same area of memory for both so they conflict. The solution is for developers of the accelerators and PCMCIA peripherels to work around the problem, as Phose 5 with their Blizzard cards and HeSoft with the Squirrel have done. Sndly it's not easy to test this in reviews as each card and PCMCIA device is different, and without testing each and every card we couldn't give n definitive onswer. However we are looking at ways

of testing for PCMC1A compatibility and will hopefully announce this in an imminent issue. In answer to your Immediate question the Blizzard card will work (with 8Mb RAM) and an Overdrive.

NO SAES PLEASE We regret that we can

not respond to estern' quaries by post or over the phone. Please do not include stamped addressed ie through the pe of the mecazine



unwanted bugs and niggles in Sensible World of Soccer, will be free with your next copy of The One Amiga magazine! Sellotaped to the front of the May issue, on sale 28th of April, the update will come in a blue, attractively square package, just ready for you to slot into your Amiga. Simple!

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Frequently Asked Questions

CU Amige Megazine gets to grips with common modem questions.

Q I want to get 'onlina'. What should I do?

A. First, you'll need a modern. The modern is the device that transmits data through the telephone network linking you to the Internet, whare you can diel arrywhere in the world for the same price as a local call.

What sort of

E.A. There are internal and osternal moderns. The internal and osternal moderns. The internal changed for IRM-PCS. Any external style modern will work with the Ampa, all you need as a standard R5232 25 way cobb to connect it to the serial port Some CRCs have 8 pin serial ports, so check your leads Try to buy the lastest modern that you can allow, during face in slower than allow, during face in slower than modern ensure it supports the VS4 standard (rether time the Visa).

Q. What software will I need?

A. Moderns shayer, soom to come with PC addivers in the look, which is no use to the Arrigal Plython and a state of the Arrigal Plython and a dark with several Public Domain/Sharevers programs such as Recurim or Form You can also buy a program such as Fermite devasable from HSGH, to: 01505 731811, reserved in CU Arriga Magazine. Festuary 1985; All of these will let you log not as BBS.

Q. Will it work as a fax machine?

MA. Nearly all modern moderns will operate as fax machines but you need the necessary software. Although moderns come bundled with fax software, it's generally PC stuff. The choice of Armige software is limited to GPFax (First Computer Centric MITS) 231 94441, Taprine (Bittersoft tell 01908 220196) and some DU utilities Check, before you buy a modern, though, as some will not support faxes.

Will any Amiga work with my modem?

A. Any Amiga can drive a 14.400 baud modern with no problems. A 89220 or a higher based Amiga (such as the A1200) is required for rehable 28,000 baud connections. There are several programs ground which claim to speed up access. A500 or A2000 owners might find these useful

Q. What's the difference between the Internet and 988?

A Bulletin Board is a ster where groups of users communicate with each other ebout common interests. You can swop messages, transfer fise etc. The intermet is a world wide network of communication lines set up by the US military, which can be used for free transmission of data. It links thousands of 9BSs around the world BBS come in two litwours.

commercial systems and non-commercial systems. The commercial boards charge fees and include commercial 500 289378, Jámes 100 289378,

On the Internet you can use tools such as FTP (for download-into progrems), Tainet (for logging into remote computers) and Mosaic (for using the World Wide Web). The Internet is fast, if you

send an electronic mellimessage to someone, it will reach their site an a few seconds. To use the Internet you need to either get a dedicated account with a company such so Deman, or use a gateway through a BBS such se CUX, CompuServe or Deiphi. The dedicated account allows you to run mail, nets and Web programs on your Amiga.

Web programs on your Amiga, crams, on this qualwow you way to run read, nets and well and the company of the company of the company of the control of the company of the company of the control of the company of the control of the company of the company of the control of the company of the control of the control of the company of the control of the co

■ Q. Which should I try first?

Bulleth Boards skated to the right. These are all systems which are part of the Richards are all systems which are part of the Richards results are stated to the Richards are shown includes tens of thousands of bulleth boards, all sharing mail You can post a message to a Richards and everyone disk will be able to boards also have file areas when all the listest Public Domes no offer over to devote the results of the results when the results are the results and the sharts Public Domes no file was the results of the results which are the results which are the results when the results are the results when the results are the results are the results when the results are the results

L I have a modern that works at 14,400 baud, I've sat my comms software to work at this speed but nothing happens. What's wrong?

A. Although the modern will cleim to work at 14,400 baud it works faster due to the data compression algorithms. Most 14,400 moderns will only recognise aceeds of 19,200 baud. This might sound confusing, but there are two different appeds at work First. there's the modern's transmission speed to the modern at the other end of the telephone. No matter what, this will remain at the modern's stated speed. In this case 14,400 baud. However due to the data compression the amount of data being transferred is higher, so the speed of the link from the modern to the computer is about 19,200 beud | John Kennedy

My own board

I want to start a Bulletin Board. What softwara do I need?

Now you've opened a can of worms , there are several programs to choose from Some, like Max's BSS, are Public Domens Some like XanoLink are commercial (available from the Darkside BSS). The best thing to do as ask evenud, and log lint as many boards as possible to see what features ere offered.

Board name Heart of Gold Modern number: 01247 274919

Board name 1024 BBS Modern number 01952 - 419664 Board name The Silmelite BBS Modern number 0181 230 1566 Board name. Silmelite BBS

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Board name Crooked Spire Modern number 01246 551 626 Board name Frost Free BBS

Modern number: 01484 842 341 Board name Shades BB5 Modern number: 01670 787672

Board name The Lakes BBS Modern number 01768-866059

Board name Zeons Lair Modern number 01768-899420

Masterclass



A This is what year Meckinech need look the if you mutaffed Magic Northbanch, Holica that all the drawers have there alread so that you not tell what is no there have now even ages from next idea.

Following on from last month's discussion on data compression, we take a look at tha much-used LHA systam.

ast month we bushed on data compression, and how it can save on data space and downloading the dark of the data space and downloading the dark dark damps archivest less shave. The standard Armys archivest less shave been LHA you log onto a 185 and see all the files ending with the life suffice. You'll find the LHA program stell flamp on meganan cover dates or on your local 195s, and you should be soon as possible fection of Armys utilizes as

Recently a new archiver called LZX has been popping up a lot in FidoNat converselons. LZX promises to run faster and work better than LHA, so of pouse it disserves some attention You cen download LZX from the usuel or-line places (such as the Aminett, which is where i got it) and Bulletin Boards such as Creations (modern number 181 8899887). It is used in Imdem number 181 8899887. It is used in exactly the seme was as LHA, that is, from the Shell with commands like

lux a my_archive #7.iff

This will bundle up all the files in the current will directory ending in ,if and store them to he will be called my archive. Izx in order to check out the claims for LZX, I performed the following tests First of all a behavior the herge IFF image files (which usually don't peck up well as they are alicecy encoded shiptly) and secondly I erchived a pile of text files.

	Graphics Files	Text Files
Original Size	6284520	2284752
LHA Siza LHA Time	5063205 2m 03s	80541B 0m 44s
LZX Size LZX Time	5018080 1m 59s	710674 0m 46s
LHA version 1 38, LZX version 1 00		

As you can see, in both cases the LZV compression was alignity bortist — especially with remmal [end alignity worse for the sert fless). Whether or not a change over to the LZV system is meretic termans to be seen. An update to version 1.01 is expected final soon now, and this will be worth checking out in eny ser of detail in will be worth your while to see if LZV makes any difference.

Interestingly, both these coding systems rely on the LZW (few Zemple Welch) compression system, which was et the heart of the recent Computer to charge for Gilfer stones you may have reed in the computer pleas. The Gilf grephs risk estands belongs to Computer and it uses LZW, which will be found to Computer and the warm to get some merely from it herica the proposed Gilf-tax it, will be fur it see Unsay that you of more you all the programs which are compressed with LHA or LZW.

Workbench icon replacements

Have a look at the nice Workbanch pictures shown on these peges Look at different from yours? Well, unless you have Newtons installed on your Ampe, it should, like Mage Wordbanch, Newtons is a set of replacement icons to amartan up your Workbanch deplix Also like Mage/WB, it is evelible from the Amunit Intamat site and many BBS and Public Domain biantins.

Meny folk ere womed about using new icons, especially as some users have reported unexplained crashes. First of all, the original programs like MagicWB contained icons which were only that - icons. When you look at any files stored on your disks, you'll see files ending in Info. These are the files which contain the information the Amige uses to depley the little graphic. They are not programs in their own right, and are stored soperately from the programs they era associated with The Workbench clock program for example actually two individual files, the program stand and the info loon file. Without the linfo file there would be no icon display but the program could still be used (author from the Shall or by using the 'Display All Files' option from that the new icons themselves could interfere with the program. If things do go wrong when experimenting with icons, there are a few things that should be checked

1.lcon type

Icons ere classed into different types, in organi-

to Inform the Amligi's operating system if it is working with drawers, disks or programs. If you copy an ucon from a program file and make it into a drawer vou mey forget to after the type, with odd results. You can check the type by loading the ucon Into the loon Editor program supplied on the Workbench.

Remember thet II using the Workbonch 3 0 Icon Editor that it sometimes goes bonkers and save a large outline eround your images. If this happens, your only recourse is to use the Workbonch 2 editor, or a third perty program such as feoman (available from the usual Public Domain libraries /shereware outlets).

2. Tools

The line file storas the graphical deta, but it also has a secondary purpose storing tool types if you examine an linfo file using the Informetin oppoint from the Worksburch (highlight the soon and press Right-Amiga-I) you might see a list of foot lypes associated with the soon. This meshod is used (locus tomas programs for exemple, you might see

If the program has been written to look at the tool types that these can be behanged to reflect your own purposes. The stock size is consumerated at left on which the drift file as senatherated at left on which the drift file as senatherated at left of the season of the drift of the season of the drift of the drift

3. Disk and memory usage

All the new rooms ere considerably more detailed then the standard concer and so use up more space. For the best visual effect you can run your Workbench with more colours than you are used to 6 or 16. This will use up more che memory than normal which can lead to prohiems on unexpanded systems which will be seen to be supported to the control of th

Beat the system

Newfoors works shighly different in that in virtually re-virtees the way the long years works. It adds some programs to your sterntup sequence and alters the system to displey the new images. It sounds so bit extreme, but it has the advantage of friang the short-comings with the Workbench palette system Heve a lob of the exemple purchase and if you dieded you like what you see, either get the file from the Ammet of Irocal BBS or

The newer versions of MagicWB elso includes some setive parts, specifically some programs to make sure the paiette is organised sensibly As you can see from the images, the end result is vary snezzy.

although unless you can display a DbIPAL or Multiscan image on your monitor you may find your screen starts to become a little

I'm quite happy with this setlyn, which is a cellection of this and pinces I've collected over the years. And by the way, the line of leans which appears in several of the images is produced by the Tocks/Menger program. This prevides you with an easy way of leaving programs out on the Wortseen in sepacially hondy if you have a hard drive. As with all the programs mentioned have, keep a look out for it on-line or from your library.

Wallpaper

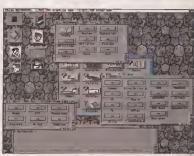
Something else you should watch out for is the WallPaper collection There are hundreds of well drawn textures for you to tile as a backdrop pattern They range from the usual mottled shedes or gray to pictures of that girl from Twin Peaks who everyone epparently fancied a while binck. These patterns are widely available so try arn out None are guite so tacky as 'Sexybench' which includes saverel, in my opinion, very poor Manga-style certain drawings of the female form. Not the sort of thing you went on your Workbench when our Lisa walks into the office John Kennedy



6. Magic Workbonch looks particularly seell arise and arith a nice shirled kachirup patners, like films: the no-like niceae the no-like niceae the least waters are noted with least-Monager. Each tool icae in on IFF heads, no you non-creats a system that heals namely a tile way you must it to look.



A. Then is the down picture which comes with Revicence, busined of the diag. On Icans are a norm NLC with objected inage. They may be a little no the large no a if you don't have a Blacks-less less comes your.



A by zwa Webbeech locks a little siretowy or the moreout, thoubs to the Well'aper tousers I'm vycay out m the kackground. Think I'll looks the Mani's Camprays and go book to pood old marble.

Soundlab

Make four semple tracks sound like fourteen, with some cunning mixing tricks.



sample channels, so how on earth ore you going to compete with professional 32-track productions? With a bir of ingenuity and some clever tricks, that's how

cover rices, that a now. The first time you laid down a drum pattern using a tracker file of CRMING or Particeter, you probably put if he basis drum no net track, the basis drum no net track, up to the representative of the personal participation of the representation of the personal person

entire sound output capacity.
Although the Armpa can play no more then four internal samples at once, it doesn't mean their it can only play four sounds at once. As fix as the computer is concerned, it makes no difference whether each sample is a recording of e single basis drum, or an entire corchestre. As might puts no greater orchestre Readying the orchestre sample puts no greater

strein on the Amige than playing the bass drum – after all, they are both just sound waves. You can use this fect to your advantage, to make your Amiga sound as if it's playing far more samples then it actually is

Mixing samples The besic tack to learn is sample

mixing Drum patterns can often be squeezed onto e single track by mixing the right samples. together Before you get started, it's a good idea to make up a new set of samples from your standard drum sounds Load up the basics, say e base drum, e couple of high hat cymbals, e snare drum, e crash cymbal and a hand olep Using ell four tracks, build up the kind of rhythm you're after New look at the block, and see where two or more samples are pleyed at the same time. These are the samples that you'll need

Keeping your onginal samples Intact, copy the waves into blank sample windows and use the sample editor's 'mix function to combina them It's likely that there will be parts where the bass drum sounds with the high hat, but enother place where the bass drum sounds with the high het and the snare drum. In this case, you'll need to make two new samples

However, although it might seem obvious to combine the bass drum, high het and snare drum for the second sound, you could leave out the high hat without making any noticeable differenca. Certein sounds use similar frequencies, and so mesk each other out, es is often the case with enere drums and high hats. Each time you combine sample waves, you lose a little of the definition from both sounds, as they both have to share the same space. Reducing the emount of mixing will help keep the fidelity of each Individual sound

Depending on the sample editor you use, your moved samples may come out at heif the volume of the original waves. Check for this, and if they need boosting, amplify them accordingly. Usually a 200% volume boost will get them back up to their original volume. Once you'va got a string of combined drym sounds, save

them out for future use Now you can create a now block, end using the initial four track drum pattern as a guide, you can recreate the rhythm on a engle track with your now samples. The only places you might need to use two tracks would be when there's a sustained sound, such as crapt symbol, which such as crapt symbol, who such as crapt symbol, who only such as craft symbol, who only as craft symbol, who only as craft symbol.

Breakbeats Breakbeats, complete drum

loops, ere very effective at saying tracks. A whole percussion arrangement cen be contained in a single sample, and if you want to break sway from the monotony of e continuous loop, you can always chop it up and rearrange it. What can save yet more.

tracks, is combining bessines or riffs with your breakbeats. This sounds complicated at

first, as you would need two identically pitched loops in order for them to match up, but you don't octually need two loops, just the breakbeat end a single bass or synth sample.

The truck is to make use of your sample editor's pruch change or re-sample feature, and mox repriched copies of the synth or bass cound into the breckbeat

Using two tracks, ley down the breakbest and your bessime or inf Once you've pot this running, jot down the order and pitch of the notes in your bassime. Use your sample editor to make repriched copies of the bass sound for each different note in the bassime. This is a of that you can mix these samples into the break

beet sample. Now set the block playing, and call up the breekbeet sample we dow. As the semple is a played, own as the semple is played, the semple is played, the semple is played, the semple is played. Listen for the notice of the sample is being played. Listen for the notice of the baseline, while is one of the semple is being block of the semple in the semple is being the notice while it is not the semple in the semple is being the semple in the semple in the semple in the semple is not the breakbeat were. Watch to see where the sem line is not the breakbeat were for each not set for seah on the

the bassline Copy the first bassing sample and then move to the breakbest sample Zoom right into the poslight the erea, and click on 'mus Now get the next bass sample into the copy buffer, and mix it into the next spot on the break best wave. Repeat this right along the brsakboat, until you've over laid the whole bassline if necessary, boost the volume of the mixed sections. You now have the drums end bassline on a single track, leaving the remoining three for now sounds

Tony Horgan



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Back chat

Got something you want to say? Write it down and send it to CU Amige Magazine, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

LETTER OF THE MONTH

On the up.

I have a shearful onto se old to the organize debate concerning the future of the Analyst. I work for Force, a big horse choice, a while the work for Force, a big horse choice, which have for the force of the force

noth, whe sworled shout the partie Anies has to play in future technology? I certainly ein't. Finally, for the people who will never yet sonough of 3D animation, watch Reboot, a certain series which is shown on ITV on Tuesdays at 4.00 pm.

Michael Barkhorder, Goventry.



Home business

I am a fenatical Amioa 1200 user, who originally purchased my Amroa for its vast array of superb games. However, since reading mage zines such as yours. I have become more and mare interested in the more 'senous' side of of computing. An area which has particularly caught my eye is public domain software. which I use regularly I now want to set up and run my own PD library from home. I have all the equipment that I need already, so all I need now is some advice. I am concerned over the legal aspect of the business especially but I also need some general advice, on contacts and ideas especially I would be eternally grateful if you could help me out in this venture, as I am looking forward to running a PD library of my own

Daniel Stranoward, Barkshire.

PD works on the basis that the outhor of the softwave releases his or her program tota the public domain. Whilst they generally retain the capyright (meaning you card wher II) you can capy it out pass it on, which is what PD firms do. As for ourses of good PD software, get hold of the April issues of CU Amigo Magazine. This contains a PD Special showing some of the best PD attes around and where you can get them.

A foreign affair

Helio Amiga people. I live in France The Amiga is great. I have a problems with your coverdisks, though, became o John's speak-much English and your coverdisks ere all in English So, conid you do two versions of the coverdisks — one in French and one in English?

Pierre Monto, Parie.

Sorry Pierre, ao can do. The problem is thol we couldn't fit two versions of the programs onto our cover disks because the disks are always overflowing with goodles and there fuel lsn't any more room unfortunately!

Tell me more!

Greatings from Birmingham. I've been buying CU for more years than I care to remember However, I've only just recently noticed an eleming trend – you only seem to be covering the Arriga Commodore produced PCs, and you're called 'Commodore User Armge

Magazine' so why don't you cover the Commodore PC I've got? I await your answer

Paul Jenkins, Sirmingham.

Greeingell You're been reading CU Amigo Megazine for a with know you' Well, (you have you should have realized by now that we're never covered Cosmodor PC (casept in earth, a fact did not covered to the covered possible of the country of Laoding at the front cover of this megazine you' the country of the front cover of this megazine you' the other small. This is breezes we're an Analysia magazine, which will be the breast we're an Analysia magazine, which go the The Commission of Jose want to keep reading the megazine, why not signated from your PC. to an Amigo?

Where's the disk?

For a long time now I have thoroughly enjoyed all your coverdisks. They and the magazine have been a great source of ansoyment, I veonly ever had problems with two of the coverdisks. The first one was replaced within days without a bitch. The second disk. Directors Cous. (coverdisk 100) however is causing me great concern. I returned it approximately one month ago but I still bayeo't received a reply or replacament since I rang DiskXpress and was told that a replacement disk would be forwarded to me but I have received nothing since May I appeal to your good offices to lend a little weight to having a replacement disk forwarded as speedily as possible? I have also checked the March issue for envirence about what might be causing the delay but to no avail

D Steele, Kent.

There was a slight problem with this disk concering individual Amigos that did not happen on any of our test mochines. However, if you contact DiskSpress they'll now be able to supply you winh a decompressed Directory Opus coverdisk which will work on your Amigo.

Absolute pants

In response to Jonathon Robbins' letter moaining about Sensible World Of Soccer (Backchast March 98). 1 think he is talking absolute parts. The improved goalkropers add a new dimension to the game but cen actually be bester by long distance shots, the odd clurney deliection and even the occasional normal effort, in my first attempt at a cercer I took

THE FAR SIDE



Torquay Utd to the top of the plamiel in successive seasons, knocking out top teams in cup competition and never had problems with needing two dafanders to clean up at the back

My only grumble is that the computer teams are a bit too predictable as they try to get the ball back to the middle of the pitch all the time Also the computer team's players navar gat Injured and taken off as yours can; and there is no African Nations Cup It's atill great though, so Jonny Robbins, gat some talent, Sensi rules the world (when I'm

Giggsy of the South West, Torquey.

Even more ProCalc

I am new to the Amiga 1200, having just upgraded from the Commodore 64 Because of the differences in the two machines I am finding it difficult to get to gross with. For example, I have been following your tutorial on ProCelo (Coverdisk 94, Navember 1994) and while the program is exactly what I want, being a nowice. I am finding it hard to get on with. Will you be publishing a manual for the program?

C.R Weaton, Kent.

GoldDask, who originally published the program, no longer have any manuals and were unwilling to



A ProCols - use of the best agreedabouts around it warvelenble for springe not different interest rates.

By GARY LARSON let us cover mount our own. However you could try calling Silica on 0181 309 1111 who did have some ProCules left in stock, You might be able to set a manual, as part of the complete package.

Red alert

The situation is becoming critical here in Portugal I'm an A1200 owner with a 240Mb HD. As a loval reader of your magazina I'm writing to laave an important messaga hara in Portugal it's becoming very hard to find a place to buy hardwara and software for the Amigs If wa want Amiga software, the only way to get it is to import it from other countries. Even some stores that had the Amiga, now don't have it. The reason? Most people don't know the American and the ones that do think it's only a games machine. The Amiga is being crushed by the other computers. Don't let the Amica dia.

Luis Santoa, Portugal.

Pop videos

Thanks for your animation feature in the April issue It convinced my older biother to get a second hand Amiga 1200 with an accelarator. RAM expansion and a hard drive, instead of the PC he was saving for Ha's bean asked to make a video for his mata's band, but until now hadn't been able to afford all the krt. Now he's got a brilliant sat up for a really good price, and the video's looking good so fail

The best bit is that now I get to play Sensi World of Soccer, Cannon Fodder 2 and Super Sindmarks, and I can also mass around with OctsMED when he's not using it! I thought I was going to have to wait another six months. bafora ha saved up and I got to play all thosa games every talks about at school! Thanks

Alletair Deen, Norwich.

Green with envy I have seen many advertisements for green' PCs, which are kindar to the environment, and this seems like a load of rubbish to me. How can something made of plastic, metal and silican be environmentally friendly? Still, it's all comparative I suppose, some will be better than others. Which brings me to the Amiga. Surely Commodore could advartise the fact that not only are thair machines cheeps; but also more anvironmentally friandly. Thay usa lass plastic and metal, smaller motherboards and less power than any of their crappy competitors, so come on sell the banafits

Seamus Googa, Dublin

Er, we don't mean to be negative here, and we're sure yon've researched this properly, but since Commodore have not produced an Amigo for at least a year now and haven't advertised one for even longer, the message is unlikely to get across,

No letter

You sent us an empty envelope, saaled with a first class stamp. Mi John Cawley of Glasgow.

TEAM TALK

Last month's video and animation feeture meda a

big impression on the CU Amige Magazine team.

Or maybe they've just been watching too much TV ...

ALAN DYKES



driver and it overy realishe opports mineleg at houself in the mirror, thing 'yes lookes at not peak? E'THE Mike At ME?'

USA COLLINS



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TONY HORGAN



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HELEN DANBY



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JOHN KENNEDY



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You've phoned or posted your antries by now, and you've probably told all your mates how brittent your team to, But Sensi has a way of being unpredictable, sepeciatly in the clammy hands of jaded EMAP journatists. Hare are the results of the matches and the goal scorers for each team.

JON HARE'S TEAM

Just how sensible was Jon Here's choice?					
Player Name	Position	Code	Velue	Goule	Points
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	M	1027	E960K	0	0
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Phirty points! Luis Hennque in goal, Deve McPherson in defince and Sergio Alaujo are the stars of the show, while Paolo Negro did well. ne would have had a negative score but for his goal. Both Miguel and Viadimir Jugovic are strong in midfield but might have performed better considering they were both bought for around the 22M mark And just what does Stig Inge Bjoinsbye think he ie up to?

MATCH SCORES MONTH 1

The following are the full results of all matches played in the 14 rounds of month one of the Sensible Soccer Fency League Use these figures to find out how many goals were scored against

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Round 2

GALATAGARAT Ø

MASERAL III

Round 3 NYES PLATE II GRATASMUS 2 PC PORTO 1 LIVERPOOL I

Round 4 AJAX 1 GM 80 8 SARAS 1

COLUMN MINISTER 1

RAYERE MUNICH II PC PORTO 2

MARCHIGITE UNITED 1

PARIS ST SPENAUL 1

Remember, if your goalie's team concedes no goals you get a +4 bonus, if any of your midfielder's teams have a clean sheet you get a

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PARIS STRIBUNE

BEAL MARKING 2

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BISUIA BALMPAS 1

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MARCHISTIA MITTER II

7.0 to AC Milen equinst Liverpool? Pull your socks tra boyo!

HOW TO ADO UP YOUR SCORE

Young you have been stored to the March and Agold I store of CU Amiga Magastine and
This One For Amiga Course, and you should have been players from or loant also of them.
We won't go list asy more detail been have been players from the court also of them.
We won't go list asy more detail about how the stored were formed because the comparison of the fact has now played by your detail or good and the court of the cour

GOALKEEPERS (Q): Give yourself four points (+4) if your exlected goolheeper has hopt a clean sheet (is, he's not let in any guele is a game). Deduct one point (-1) for every gool

Ne has let in.

OUTENDERS*(D): Defenders seelve fear points (+4) for overy goal they ecors and then
points (-3) for every abous sheat they keep. However they bose one point (-1) for every
goal that team consister.

ANDIQUESS(M): Middladders access four points (-4) for every goal they serve.

ANDIQUESS(M): Middladders access there points (-4) for every goal they ecors.

ANDIQUESS(M): Middladders access there points (-5) for every goal they ecors.

To work out your overall team management store add up the points that your fair delived one, two multificiars and two statehins have goined by scoled by the best your fair delived one of the state of the statehins have been goined by scoled by the delived by the your goal been goined of states is love hed. Feally and by goine to the goine that have been second against sea he of your defendent each of your goallespee and subtreet this total from your previous points score tout. You now have your covarial scene. As an exemple see how fealible Software socials supreme Jun Hers's team worked out using this scoring system in the low-addew.

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John Kennedy has some

hinge to say about Bulletin Boards and

the dreaded tormation

Supernypeway

The opinions expressed in this princis Arraya Magazzne, if you beld an



ing Before you rush to the end of this rant to find my E-mail address end toest me with a fleme, please hear me out I don't mean that I think that Bulletin Boards are dull and tedious by defindion and are used by dull and tedious people with a tenuous grasp of true social interaction. Fer from it, my local board has given me a greet deal of enjoyment thanks to the FideNet system where I've met end chatted with other comms anthusiasts from ell over the world. And they were not dull, tadious or socielly inedequate

Too difficult? Bulletin Boards era bonna because

they are based on ancient technology The first boards were slow, text-only systems, where users had to register, log in, then pick options from on-screen menus by selecting the right keypresses Once into the system, they could look through message end file arees, struggla with options and meybe gat to download stuff

And what has changed since those first boards? Practically nothing I recently wetched an intelligent computer intersta adult use a BBS for the first time. He was stuck within minutes. This is the problem. Comma is too damn difficult. It's a crazy situation. Look at the Masaic browser for the World Wide Web system on the Internet It's brillient - click here, click there, colour graphics. sound, enimation, It's the way comms should be, not some archeic system of ANSI character sets. The World Wide Web works because the pages of information which meke up the text and pictures you sea are ell besed on special

embedded codes called HTML. It's e brilliently simply system you just used codes like <i>this</>i> to make changes to the text style You went a picture? Eesy, add something like this <img scr="pic-

ture of">. This is ell possible thanks to the 'Client/Server' systems The client program runs on your computer the server runs on the remote system Rether than just display text sent from the server system, the client acts intelligently and can displey graphics or sounds, or move icons end windows around the screen For example, the server might trensmit the code ' and instead of displeying the letter '6' the client executes e routine that changes the font into bold style

The enswer? Recently I've been working on a system called Balloo which tries to take the HTML stenderd and hemmers it into e form that Bulletin Boerds can usa. The problem is not with the BBS Host Software but with e suitable client. To this end I've been coding a new form of comms termi nel for the Arrige It looks like any other, except when text from the BBS host enlives in HTML for met, it is rendered properly. This includes graphics end buttons that the user can click on clicking on a button simply returns e

doesn't have to do enything clever The only changes the SysOp has to make is to include an HTML option for the menu

screens ha has on-line There are problams to overcome of course. The Internet was originally designed on the principle that connection was never e problem, machines were on-line permenently if you have over seen a really fast internet link running a program such as Mosaic, you'll know what a really smert tool it is, end how trying to use it with a 14,400 or 28,800 modern link is really a bit of a joke Mosaic, and most Usenet news readers end E-mail systems, ere ell geared for on-line use there is no off-line aption for the reason that the originators were elways on-line 100% of the time Besides, the World Wide Web works because all the other systems are on-line end there is so much information to choose from that trying to make an off-line system is ludicrous,

Unfortunately, in the UK the majority of modern users know line costs them money end as my telephone bills will testify, it's not cheap if you have to use it a lot

What we need ere new tools, specifically tailored to the needs of the home computer user Mosaic stri't enough, and e normal BAS is too limited and down

right difficult to use So we have to capitelise on the facilities we do have. The latest modems, the V34 2B,800 modems are fer from ISDN links but they are probably as fest as we can expect to get down a telephone line and they are get ting cheeper. So is off-line stor age - the other day I got a SCSI 2) Gigabyte drive for less then spent on e drive of only a third of that capacity a year ago

We've got fast processors. and great graphics. In theory we have a terrific platform on which to run a stunning client system What can we do about it?

The Balloo project is a start know there are systems such as RIP out there, but I feel they are probably not the direction in which we should be moving If you think you would like to help or have env comments please get in touch with me either by post through the megazine or we electronic mail

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